To: Black, Jodi (NIH/OD) [E] (b) (6) Lauer, Michael (NIH/OD) [E] (b) (6) Bulls, Michelle G. (NIH/OD) [E] (b) (6) Cc: Bulls, Michelle G. (NIH/OD) [E][/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP From: (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=B366F1A4382D44C1BDE626E7730C3DD4-BULLSMG] Sent: Mon 5/4/2020 4:05:12 PM (UTC-05:00) Subject: Jodi/Michelle/Mike 1:1:1 NIH New Generic SSA final.docx Project Tracker Status Update FW: WIV FW: DPI OI2 Request Process Information

Agenda

5/5/20 Jodi/Michelle

OPERA IMOD

(b) (5)

Compliance (b) (5)

	(b) (5)	
N/-	actings	
IVIE	(b) (5)	

Supporting Statement A for

Generic Clearance for NIH Citizen Science and Crowdsourcing Projects (NIH)

OMB# 0925-0766, exp., date 04/30/2023

Date: March 4, 2020

Check off which applies:

- X New
- * Revision
- * Reinstatement with Change
- * Reinstatement without Change
- * Extension
- * Emergency
- * Existing w/o OMB approval

Federal Government Employee Information:

Name: Mikia Currie, Chief, Project Clearance Branch (PCB)

Address: 6705 Rockledge Drive, RKL1/803-B

Telephone: ^{(b) (6)}

Fax: 301-435-3509

Email: (b) (6)

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Attachments (save file names to match what is being referenced: (ex: x.baseline; y.screener)

ATTACHMENTS

Attachment 1 Sub-study template form

Attachment 2 Mini SSA

Attachment 3 Privacy Act Memo

Attachment 4 published 30-day FRN

A. Justification

This is a new generic collection titled, "Generic Clearance for NIH Citizen Science and Crowdsourcing Projects." Projects under this generic clearance will allow Agency researchers and program staff to test ideas more quickly, respond to the project's needs as they evolve, and incorporate feedback from participants for flexible, innovative research methods. Any collection under this umbrella is expected to be low in burden.

A.1 Circumstances Making the Collection of Information Necessary

Section 413 (b) (3) of the Public Health Service Act, 42 U.S. Code § 285 gives NIH the authority to collect this information.

Pursuant to Section 402 of the American Innovation and Competitiveness Act (P.L. 114-329) federal agencies have broad authority to use crowdsourcing to advance agency missions and facilitate broader public participation in the innovation process. The purpose of this collection is to identify existing research, educational, operational, and project information from the public in order to share more widely with a range of audiences. These types of collections will further the legislation's purposes of "accelerating scientific research, increasing cost-effectiveness to maximize the return on taxpayer dollars, addressing societal needs, providing hands-on learning in STEM, and connecting members of the public directly to federal science missions and to each other."

Many federal and non-federal organizations are already using innovative citizen science and crowdsourcing tools to advance their missions. These tools are especially valuable where data are sparsely distributed or when projects rely on large datasets. Successful citizen science and crowdsourcing projects usually result from iteration of the design based on feedback from the participants. Also, there could be uncertainty about whether the time and effort to create a project will capture the interest of the public and yield meaningful public participation.

Citizen science and crowdsourcing are tools that engage, educate and empower the public to apply their curiosity and contribute their talents and feedback to a wide range of scientific and societal issues. Citizen Science is a form of open collaboration where the public can participate actively in the scientific process through methods that include asking research questions, collecting and analyzing data, interpreting results, or engaging in problem solving. Crowdsourcing is a process where individuals or organizations submit an open call for contributions of information from a group of individuals ("the crowd").

A.2 Purpose and Use of the Information Collection

The purpose of this information collection is to:

- Accelerate scientific research
- Increase cost-effectiveness to maximize the return on taxpayer dollars
- Address societal needs
- Provide hands-on learning in STEM education
- Connect members of the public directly to federal science missions and each other
- Identify and disseminate resources more broadly to the public, on the Institutes' and Centers' (ICs) websites, and/or
- Collect information for agency internal use to improve scientific practices and/or assist in scientific reviews

Citizen science and crowdsourcing collections under this generic clearance may include the following types of questions or requests of participants:

- **Personal and Contact Information.** Projects submitted under this generic clearance may solicit contact information. This information may be necessary to organize and analyze data. Projects may request contact information (name and email address, zip code, address and phone number) to provide participants with project updates and share data. Participants would be made aware that the publically available data on contact information will be anonymized and aggregated, for example, by census tract, zip code, city, or some other higher level than individual addresses.
- Names and Nominations. NIH relies on nominations to recruit appropriate scientific expertise, broaden membership of review panels, and receive recommendations for reviewers. Projects submitted under this generic clearance may include public solicitations for nominations, to include project overviews, request for abstracts, or relevant qualifying questions related to the reason for individual's nomination. This information would only be used by NIH internally to select eligible candidates from the scientific community.
- **Experience and Expertise.** For data quality purposes, projects submitted under this generic clearance may request information to evaluate the skill level of the participant by asking about their experience with the project topic. Questions may be about a person's age range, level or topic of education, participation in organizations, or professional experience.
- **Requests for population characteristics** within crowdsourcing mechanisms, such as institutional affiliation and career level/stage. For example, this mechanism will allow for individuals interested in a certain topic to sign up for alerts that NIH may send in the future, and at the same time allows NIH to identify individuals interested in various topics with a goal to potentially contact them in the future.
- Identification or Descriptions of Extramural Research, Research Tools, or Existing Resources. Projects may include requests to identify and/or describe extramural research, research tools, or existing resources. This will allow NIH to identify best practices and developments within the scientific community that could inform future NIH program development. This could be a means to publicly identify emerging tools, guidance, or research or to review, vet, and encourage the use of public health interventions in the community and clinical settings. Making this information publicly available could enhance the quality, speed, and public health impact of efforts to translate research into

practice. It will also help the agency understand resources availability in extramural or other public environments.

To obtain approval for a collection that meets the conditions of this generic clearance, a standardized form, depending on complexity of sub-study, a template or "Mini-Supporting Statement A (Mini-SSA)" will be submitted to OMB along with any other supporting documentation

A.3 Use of Information Technology and Burden Reduction

If appropriate, programs will collect information electronically and/or use online collaboration tools to reduce burden. Screenshots will be provided for all online data collection instruments. A Privacy Impact Assessment (PIA) will be completed for all online requests.

A.4 Efforts to Identify Duplication and Use of Similar Information

No similar data are gathered or maintained by the agency or available from other sources known to the agency.

A.5 Impact on Small Businesses or Other Small Entities

Small business or other small entities may be involved in these efforts, but the agency will minimize the burden on them of information collections approved under this clearance by sampling, asking for readily available information, and using short, easy-to-complete information collection instruments.

A.6 Consequences of Collecting the Information Less Frequently

Forms will be submitted on an as needed basis.

A.7 Special Circumstances Relating to the Guidelines of 5 CFR 1320.5

There are no special circumstances. The information collected will be voluntary, not generalizable, and will not be used for statistical purposes.

A.8.1 Comments in Response to the Federal Register Notice

The 60-day Federal Register Notice was published on October 4, 2019 (Vol. 84, pg. 53162) and allowed 60 days for public comment. No public comment was received.

A.8.2 Efforts to Consult Outside Agency

No outside consultation is intended

A.9 Explanation of Any Payment of Gift to Respondents

It is possible that some information collection activities will entail a small payment or gifts to respondents. The agency does not typically provide payment or other forms of remuneration to participants, however if it is necessary for hard to reach populations, details and a justification will be provided. Instances for offering an incentive will be determined on a case-by-case basis (depending on the particular information collection design).

A.10 Assurance of Confidentiality Provided to Respondents

Personal Identifiable Information (PII) will only be collected to the extent necessary. Respondents will be assured that neither their participation nor lack of participation will have any effect on their eligibility for receipt of services. In addition, respondents will be advised of the purpose of the information collection, the use of information collection, NIH sponsorship, that their participation is voluntary, and that they may choose to discontinue or have their name and/or related information withdrawn at any time. In instances where it is possible, information will be presented in an aggregate form without links to the identity of individual participants. The Privacy Act applies to the information collection per Privacy Act System of Records Notice (SORN) 09-25-0156, *"Records of Participants in Programs and Respondents in Surveys Used to Evaluate Program of the Public Health Service, HHS/PHS/NIH/OD"*.

It may be necessary for some information collections to retain name and contact information to be used to contact potential respondents. In these instances, the rationale for retention of PII will be fully explained. Most of the information collections to be conducted under this clearance is considered exempt from Institutional Review Board (IRB) review at NIH. However, if it is determined that the information collection involves non-exempt activities, the staff will be required to submit the information collection for review to the IRB for approval.

A.11 Justification for Sensitive Questions

This generic will allow for sensitive questions specifically in the context of determining demographics and promoting diversity. NIH values diversity (NOT-OD 20-031) and inclusion, and this data will assist NIH in being more inclusive of culturally, medically, and behaviorally sensitive matters. All questions of a sensitive nature will be justified. The justification will include the reasons why the agency considers the questions necessary, the specific uses to be made of the information, the explanation to be given to persons from whom the information is requested, and any steps to be taken to obtain their consent. All sensitive questions will be voluntary fields.

A.12.1 Estimates of Hour Burden Including Annualized Hourly Costs

Participants in these activities may include research in academia or industry, clinicians, patients and patient's advocacy organizations, other non-governmental organizations, and members of the public. A variety of instruments and platforms will be used to collect information from respondents and each sub-study will vary by number of respondents and average time per

response. However, the annual burden hours requested 18,601 is based on the number of collections we expect to conduct over the requested three-year period for this clearance.

Type of Collection	No. of Respondents	No. of Responses per Respondent	Time per Response (in hours)	Total Hours
Call for Nominations/Resources	1,000	1	10/60	167
Recommendations of scientific reviewers	1,000	1	5/60	83
Request for Population Characteristics	20,000	1	5/60	1,667
Repository of Tools and Best Practices	100,000	1	10/60	16,667
Total		122,000		18,584

Table 12-1 Estimated Annualized Burden Hours

A.12-2 ANNUAL COST TO RESPONDENT

These estimates are based on the following data from the Bureau of Labor Statistics: the General Public rate was obtained from the <u>https://www.bls.gov/oes/2018/May/oes_nat.htm#00-0000</u> occupation title "All occupations" occupation code 00-0000. The Health Professionals wage rate was obtained from <u>https://www.bls.gov/oes/2018/May/oes_nat.htm#00-0000</u> occupation title "Healthcare Practitioners and Technical Occupations", occupation code 29-0000; and the Health Educators wage rate was obtained from <u>http://www.bls.gov/oes/current/oes211091.htm</u>, occupation code 21-1091.

Type of	Total Annual	Hourly Respondent	Respondent Cost
Respondents	Burden Hours	Wage Rate*	-
General Public	18,334	\$24.98	\$457,983
Ocheral I ublic	10,554	\$24.90	\$+57,985
Health	83	\$39.42	\$3,272.00
Professionals	05	\$39.42	\$3,272.00
	1 (7	*2 0.00	
Health Educators	167	\$28.68	\$4,789.56
TOTA	10 0 4		
TOTAL	18,584		\$466,044

Table 12-2 Annualized Cost to Respondents

*The General Public <u>http://www.bls.gov/oes/2018/may/oes_nat.htm#00-0000</u> The Health Professionals <u>http://www.bls.gov/oes/2018/may/oes290000.htm</u>

A.13 Estimate of Other Total Annual Cost Burden to Respondents or Record Keepers

There are no additional costs of than a respondent's time.

A.14 Annualized Cost to the Federal Government

The annual cost to the Federal Government for the proposed data collection effort is \$11,977.50

Cost Descriptions	Grade/Step	Salary*	% of Effort	Fringe (if applicable)	Total Cost to Gov't
Federal Oversight					
Asst. Project Officer	GS 13/6	\$119,775	10%		\$11,977.50
Contractor Cost					
Travel					
Other Cost					
Total					\$11,977.50

*the Salary in table above is cited from <u>https://www.opm.gov/policy-data-oversight/pay-leave/salaries-wages/salary-tables/18Tables/html/DCB.aspx</u>

A.15 Explanation for Program Changes or Adjustments

This is a new information collection request.

A.16 Plans for Tabulation and Publication and Project Time Schedule

The information collected through this collection is primarily for internal review and will not be published. However, for certain activities, information may be published on an NIH website or included in a printed or online program for the activity or subsequent publication describing the activity. Each project submitted under this generic clearance will specify plans for tabulation, timeline, and publication of the information collection.

A.17 Reason(s) Display of OMB Expiration Date is Inappropriate

The OMB control number and expiration date will be displayed.

A.18 Exceptions to Certification for Paperwork Reduction Act Submissions

None

 To:
 Ta, Kristin (NIH/OD) [E]]^{(b) (6)}

 Cc:
 Rosen, David (NIH/OD) [E]]^{(b) (6)}

 From:
 Islam, Emrul (NIH/OD) [E][/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

 (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1F1C9E75325D459B950E505EDEB7C4D2-ISLAME2]

 Sent:
 Wed 4/29/2020 9:23:02 AM (UTC-05:00)

 Subject:
 Project Tracker Status Update

Hello Kristin,

We have made significant changes to the project tracker since our last meeting based on the requests given by Avery Tucker. Here are the brief overview of the changes:

- 1. A project can now have multiple Business Areas
- 2. A staff can belong to multiple Business Areas
- 3. Reminder will be sent 1,3, 7 days prior to action due
- 4. All the below comments taken care of

Here's what's needed from you since roles and users might have changed since you last used this :

1. List of users and what business area they belong to (I will activate the daily reminder once you send me the updated list)

Please test the system and let me know of any issues. Right now it is in our staging server which may perform a little slow. We will move to production server once you're satisfied.

Thank you, Emrul

OPERA Tracker – Comments from Pilot Team

- · Need for reminder emails
- Not receiving notification emails (may be going to the wrong person)
- Default for send notification should be 'yes'. Opt-out only.
 - OK
- Dashboard
 - Pending Actions at the top
 - List project name with Action
 - Currently no indication of past due
 - OK
- · Project page
 - Show open/pending actions only
 - Click to go somewhere else and view closed
 - Shouldn't be able to have an end date that is before the start date
 - OK
- Actions
 - can't open attachments
 - Attachments don't display on the view page
 - All fields should display on the view
 - OK
- Can project be updated to have multiple business areas?
 - Limit access by Action
 - Example: deviations, FOIA requests

• It is currently written by role that is not structured with more than 1 business areas. Will look into best way to adapt this.

- Need to figure out the priority with making this change based on the level of effort.
- · Pages not loading
 - Try and get list of pages not loading and send back

- Auto-populating project end date- 1970
 - Will update
- Default dashboard should show only open projects
 - o OK
- Project List
 - Need to be able to sort, not just filter
 - Should display newest on top
 - Default to Open only
 - OK
- Can't delete projects (action manager should be able to do it)

• Action managers should be able to archive and we can come up with an archive policy to delete projects in the long term, or determine the best options for deletion moving forward

- "actions assigned" bubble doesn't go anywhere
 - Should direct user to dashboard
- Business Areas: Remove 'Systems'. Just keep Systems Policy
 - Ok
- Once a dropdown is selected, can't clear it.
 - Need to figure out which fields are not required to build in the option to deselect
- Lead entity (potentially remove, and use projects to track the source of the work e.g. HHS, CARR, etc.)

Emrul Islam

Web Developer NIH\OD\OER

 To:
 Black, Jodi (NIH/OD) [E] ^{(b) (6)}

 Cc:
 Bulls, Michelle G. (NIH/OD) [E] ^{(b) (6)}

 From:
 Bulls, Michelle G. (NIH/OD) [E][/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

 (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=B366F1A4382D44C1BDE626E7730C3DD4-BULLSMG]

 Sent:
 Mon 5/4/2020 1:06:02 PM (UTC-05:00)

 Subject:
 FW: WIV

 RE:
 Direct Reply w/ OD Clearance - Wuhan Institute of Virology (WF390335)

 NIH letter to UCI re Wuhan Institute of Virology dd (4-30-2020) final mgb and kt

Hi Jodi,

Attached are the updates that I provided to you last week.

Attachment 1: notifies you that I have restricted all funds to WIV from the NIMH grant – the details in this attachment outlines the restricted \$660,054k which is the full amount of the subaward to WIF from UC-Irvine it's total costs, as discussed Friday. They cannot draw down any funds.

Attachment 2: is the letter that was drafted for Mike Lauer to send to UC-Irvine (prime) suspending the sub to WIV. The letter should cc Terri Jarosik/NIMHs CGMO

Next steps are to tell me when the letter is sent so that I can issue terms of awards to Terri, depending on whether we change language. Please see attached and let me know if you want me to issue the terms to Terri. It's easy to do—just need to make sure that the letter is out before we advise her to revised the award.

Michelle

From: Black, Jodi (NIH/OD) [E] <^{(b) (6)} Sent: Monday, May 4, 2020 1:39 PM To: Bulls, Michelle G. (NIH/OD) [E] <^{(b) (6)} Cc: Tarwater, Robert (NIH/OD) [E] <^{(b) (6)} Subject: Re: WIV

I have no updates. If you could advise on possible next steps that would be helpful:

(6) (3)			
	What are the options?		
Thenks			
Thanks Jodi			
1001			
Jodi B. Black, PhD, MMSc			
Deputy Director			
Office of Extramural Research, NIH			
From: Michelle Bulls < ^{(b) (6)}			
Date: Monday, May 4, 2020 at 1:	12 PM		
To: Jodi OER < ^{(b) (6)}			
Cc: Robert Tarwater < ^{(b) (6)}			
Subject: RE: WIV			
Jodi,		4 N (5)	
Do we have an update on this? Are v			
	Any updat	es?	
From: Black, Jodi (NIH/OD) [E] < (b) (6)			
Sent: Thursday, April 30, 2020 8:50 /			
To: Bulls, Michelle G. (NIH/OD) [E] <	-/ \-/		

Cc: Tarwater, Robert (NIH/OD) [E] <^{(b) (6)} Subject: Re: WIV

Days after Trump's briefing promise, Republican lawmakers wrote to leadership asking that no stimulus funding go to the Wuhan lab, citing State Department cables about safety concerns. The White House did not respond to a request for comment.

Please let me know how I can help

Best, Jodi

(b) (5)

Jodi B. Black, PhD, MMSc Deputy Director Office of Extramural Research, NIH

From: Michelle Bulls < ^{(b) (6)}	
Date: Thursday, April 30, 2020 at 8:40 AM	
To: Jodi OER < ^{(b) (6)}	
Cc: Robert Tarwater < ^{(b) (6)}	Michelle Bulls < ^{(b) (6)}
Subject: RE: WIV	

I need time to review this and determine what can be done.

Just so I am clear, please tell me whether we/NIH is now moving toward not providing any funding to Wuhan? And as I stated in the previous case, we should be very careful about how we do this. I would ask for a moment to review this and provide you w/options that range from safe to risky.

Michelle

From: Black, Jodi (NIH/OD) [E] < ^{(b) (6)} Sent: Thursday, April 30, 2020 8:35 AM To: Bulls, Michelle G. (NIH/OD) [E] < ^{(b) (6)}	
Cc: Tarwater, Robert (NIH/OD) [E] < ^{(b) (6)}	Black, Jodi (NIH/OD) [E] < ^{(b) (6)}
Subject: WIV	
Hi Michelle, ^{(b) (5)}	
	What are the options?
Thanks Jodi	

Jodi B. Black, PhD, MMSc Deputy Director Office of Extramural Research, NIH

 To:
 Black, Jodi (NIH/OD) [E] ^{(b) (6)}

 Cc:
 Bulls, Michelle G. (NIH/OD) [E] ^{(b) (6)}

 From:
 Bulls, Michelle G. (NIH/OD) [E] ^{(b) (6)}

 (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=B366F1A4382D44C1BDE626E7730C3DD4-BULLSMG]

 Sent:
 Thur 4/30/2020 4:49:07 PM (UTC-05:00)

 Subject:
 RE: Direct Reply w/ OD Clearance - Wuhan Institute of Virology (WF390335)

It's over the course of 5years. And because it is a MYF they spend as they need and they have several more years to go. We have restricted ALL of the funds regardless of whether they spent it or not because we reserve the right disallow all the costs. So we restricted every dollar that was approved for Wuhan. I can pull the originally approved project so you can actually see what was approved for them vs. what was set aside for that action date. We don't administer MYF grants the same way as incrementally funded grants.

Does this help?

From: Black, Jodi (NIH/OD) [E] <^{(b) (6)} Sent: Thursday, April 30, 2020 5:46 PM To: Bulls, Michelle G. (NIH/OD) [E] <^{(b) (6)} Subject: Re: Direct Reply w/ OD Clearance - Wuhan Institute of Virology (WF390335)

Hi Michelle, is \$660,054 the total cost to WIV over 5 years of the grant RF1MH120020 ? <u>USA spending</u> has the subaward cost to WIV as \$216,108. I'm sure I don't understand something

Sub-Award ID 🖕	Recipient Name 🧅	Action Date 🧅
2019-3805-1	WUHAN INSTITUTE OF VIROLOGY CHINESE ACADEMY OF SCIENCES CAP	12/17/2019
2019-3804	UNIVERSITY OF WASHINGTON	09/10/2019

Thanks Jodi

Jodi B. Black, PhD, MMSc Deputy Director Office of Extramural Research, NIH

From: Michelle Bulls <^{(b) (6)} Date: Thursday, April 30, 2020 at 4:16 PM To: Jodi OER <^{(b) (6)} Subject: RE: Direct Reply w/ OD Clearance - Wuhan Institute of Virology (WF390335)

It's total costs....

\$611,161 direct costs\$48,893 indirects (8% foreign rate)\$660, 054 total costs

From: Black, Jodi (NIH/OD) [E] <^{(b) (6)} Sent: Thursday, April 30, 2020 4:13 PM To: Bulls, Michelle G. (NIH/OD) [E] <^{(b) (6)} Subject: FW: Direct Reply w/ OD Clearance - Wuhan Institute of Virology (WF390335) Hi Michelle, could you/your team help with how \$660K was derived

Thanks Jodi

From: Mike Lauer <^{(b) (6)} Date: Thursday, April 30, 2020 at 2:30 PM To: Jodi OER <^{(b) (6)} Cc: Mike Lauer <^{(b) (6)} Subject: FW: Direct Reply w/ OD Clearance - Wuhan Institute of Virology (WF390335)

Many thanks Jodi – I don't understand where the 660K figure comes from.

Thanks, Mike

From: "Black, Jodi (NIH/OD) [E]" <^{(b) (6)} Date: Thursday, April 30, 2020 at 1:37 PM To: "Lauer, Michael (NIH/OD) [E]" <^{(b) (6)} Subject: Re: Direct Reply w/ OD Clearance - Wuhan Institute of Virology (WF390335)

HI Mike, Michelle has been working with NIMH and they put a hard funds control on this grant. See attached. Michelle is working on a letter for you.

Please place a hard funds control in the amount of \$660,054 TC on grant 1RF1MH120020 – 01. Please kindly notify me when the restriction of funds has been processed.

Best, Jodi From: Mike Lauer <^{(b) (6)} Date: Thursday, April 30, 2020 at 8:34 AM To: Jodi OER <^{(b) (6)} Subject: Re: Direct Reply w/ OD Clearance - Wuhan Institute of Virology (WF390335)

Thanks Jodi!

Mike

From: "Black, Jodi (NIH/OD) [E]" <^{(b) (6)} Date: Thursday, April 30, 2020 at 8:32 AM To: "Lauer, Michael (NIH/OD) [E]" <^{(b) (6)} Subject: Re: Direct Reply w/ OD Clearance - Wuhan Institute of Virology (WF390335)

Hi Mike, I'm checking with OPERA for options.

Best, Jodi

Jodi B. Black, PhD, MMSc Deputy Director Office of Extramural Research, NIH

From: Mike Lauer <^{(b) (6)} Date: Thursday, April 30, 2020 at 7:15 AM To: "Pearson, Katrina (NIH/OD) [E]" <^{(b) (6)}

"Haugen, Brian <mark>(</mark>NIH/OD) [E]" <^{(b) (6)}

Jodi OER < ^{(b) (6)}				
Cc: "Brining, Sheryl (NIH/OD) [E]" < ^{(b) (6)}		R Executive Secretar	iat	
	liza bundesen < ^{(b) (6)}	1	'Schwetz, Tara (NIH/OD) [E]"
< ^{(b) (6)} Mike Lauer < ^(b)	(6)			
Subject: Re: Direct Reply w/ OD Clearance	e - Wuhan Institute of	Virology (WF390335	5)	
Many thanks Katrina for checking and confirm	ming the results.			
Hi Aesha – I'll continue to work on this.				
Best, Mike				
From: "Pearson, Katrina (NIH/OD) [E]" < ^{(t}) (6)			
Date: Wednesday, April 29, 2020 at 11:4	1 PM			
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}	"	Haugen, Brian (NIH/C	DD) [E]" < ^{(b) (6)}	
"Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}				
Cc: "Brining, Sheryl (NIH/OD) [E]" < (b) (6)	OE	R Executive Secretar	iat	
	"Bundesen, Liza (NIH/	′OD) [E]" < ^{(b) (6)}		"Schwetz, Tara
(NIH/OD) [E]" < ^{(b) (6)}				
Subject: RE: Direct Reply w/ OD Clearance	e - Wuhan Institute of	Virology (WF390335	5)	

Hi Mike,

Based on independent searches conducted directly in the grants database, QVR and USA Spending the information is consistent with your findings.

See breakdown below and FACTS snapshots attached.

Wuhan Institute of Virology, Chinese Academy of Sciences (performance site or sub) EcoHealth Alliance in the amount of \$3,378,896

FY	APPLICATION TYPE	GRANT NUMBER	TOTAL FUNDING (PERIOD AMOUNT IN NOA)
2014	1	R01AI110964-01	\$133,595
2015	5	R01AI110964-02	\$139,015
2016	5	R01AI110964-03	\$159,122
2017	5	R01AI110964-04	\$159,122
2018	5	R01AI110964-05	\$159,122
2019	2	R01AI110964 06	\$76,301
			\$826,277

Wuhan Institute of Virology, Chinese Academy of Sciences (performance site or sub) UNIVERSITY OF CALIFORNIA-IRVINE in the amount of \$4,332,719

FY	APPLICATION	GRANT NUMBER	TOTAL FUNDING
	TYPE		(PERIOD AMOUNT)

2014]

\$216,108

Katrina

Katrina Pearson Office: (b) (6) /Mobile: (b) (6) Website: http://report.nih.gov



From: Lauer, Michael (NIH/OD) [E] <(b) (6)		
Sent: Wednesday, April 29, 2020 8:22 PM		
To: Pearson, Katrina (NIH/OD) [E] < ^{(b) (6)} (NIH/OD) [E] < ^{(b) (6)}	Haugen, Brian (NIH/OD) [E] < ^{(b) (6)}	Black, Jodi
Cc: Lauer, Michael (NIH/OD) [E] < ^{(b) (6)}	Brining, Sheryl (NIH/OD) [E] <(b) (6)	OER Executive
Secretariat < ^{(b) (6)}	Bundesen, Liza (NIH/OD) [E] $<^{(b)}$ (6)	Schwetz, Tara
(NIH/OD) [E] < ^{(b) (6)}	, , , , , , , , , , , , , , , , , , , ,	,
Subject: FW: Direct Reply w/ OD Clearance - Wu	han Institute of Virology (WF390335)	

Hi Katrina and Brian

Please see the letter from Senator McSally and Congressman Gaetz. I searched QVR, RePORTER, and USASpending and here's what I could find. Could you please check and see whether this is accurate and whether I missed anything?

Hi Jodi – looks like we have another grant with WIV monies (to NIMH), but the monies were already awarded. It's an MYF grant, so I'm not sure there's anything more to do.

Many thanks!

Mike

From: OER Executive Secretariat < ^{(b) (6)}			
Date: Wednesday, April 29, 2020 at 10:21 AM			
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}	"Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}		
Cc: "Bundesen, Liza (NIH/OD) [E]" < ^{(b) (6)}	"Kosub, David (NIH/OD) [E]" < ^{(b) (6)}		
"Joshi, Pritty (NIH/OD) [E]" < ^{(b) (6)}	"Showe, Melanie (NIH/OD) [E]" < ^{(b) (6)}		
Subject: Direct Reply w/ OD Clearance - Wuhan Institute of Virology (WF390335)			

Hi Mike and Jodi –

Please see the attached letter from Members of Congress who write with concerns about NIH's past and current relationship with China's bio-agent laboratory Wuhan Institute of Virology (WIV) and to ensure no additional tax dollars are directed to this institution. OER has been asked to draft a direct reply for OD Clearance. Would you mind forwarding me a draft response for OD clearance. Please let me know if you have any questions or if you feel this should be assigned to another SME for drafting.

Thanks,

Best Regards, **Aesha Brandy, MBA*** Program Analyst NIH Office of Extramural Research Immediate Office of the Director

Building 1, Room 150 Bethesda, MD 20814 (b) (6) (b) (6) *Contractor

 To:
 Black, Jodi (NIH/OD) [E] ^{(b) (6)}

 Cc:
 Bulls, Michelle G. (NIH/OD) [E] ^{(b) (6)}

 From:
 Bulls, Michelle G. (NIH/OD) [E][/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

 (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=B366F1A4382D44C1BDE626E7730C3DD4-BULLSMG]

 Sent:
 Thur 4/30/2020 3:28:59 PM (UTC-05:00)

 Subject:
 NIH letter to UCI re Wuhan Institute of Virology dd (4-30-2020) final mgb and kt

 NIH letter to UCI re Wuhan Institute of Virology (4-30-2020) mgb.docx

Hi,

I have revised Diane's draft to further refine our language and KT helped me get this on letterhead. It's prepped for Mike's signature. Let me know if you need anything additional



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

National Institutes of Health Bethesda, Maryland 20892

(b) (5)

(b) (5)

 To:
 Bulls, Michelle G. (NIH/OD) [E]^{(b) (6)}

 From:
 Dean, Diane (NIH/OD) [E][/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

 (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=684401597B3440D8AB1BEAC88938142D-DEANDI]

 Sent:
 Mon 5/4/2020 12:52:39 PM (UTC-05:00)

 Subject:
 FW: DPI OI2 Request Process Information

Forwarding, as requsted.

From: Kearse, Deborah (NIH/OD) [E] <^{(b) (6)} Sent: Wednesday, April 15, 2020 9:22 AM To: Valdez, Patricia (NIH/OD) [E] <^{(b) (6)} (NIH/OD) [E] <^{(b) (6)} Subject: DPI OI2 Request Process Information

Sanders, Ashley (NIH/OD) [E] <(b) (6)

Dean, Diane

Good Morning ladies,

I know that OER has made a request for DPI to contact Diane when DPI receives a request from an OIG Agent or an FBI Agent that is asking for grant-related information.^{(b) (5)}

However, given the impact of this request upon DPI's SOPs for the OI2 process, before I make any permanent changes to any DPI long-standing processes, I would like to have a meeting to discuss this with all of you. I would like to know more about OERs engagement with the OIG, and in fulfilling OI2 requests.

While I have had discussions with our OIG POC, and the OIG Hotline supervisor about the OIG and OI2 referral process, I have not received any feedback from the ICs or from anyone in NIH that has told me that the process used to fulfill OI2s wasn't working or needed improvement. However, if that is the case, I would like to hear more about that. I am amenable to processes that work for everyone.

Please let me know if you are free for a 30 minute call: Today at anytime between 11:00 am – 12:30pm or 1:30pm – 3:00 or 4:00pm Tomorrow anytime before noon or at 4:00pm. Friday anytime between 11:00am and 4:00pm

If this week isn't good for you, we can also look at next week.

Thanks, Debk

Deborah Kearse, Director Division of Program Integrity Office of Management Assessment National Institutes of Health 6011 Executive Boulevard, Suite 601 Rockville, MD 20852 Desk: ^{(b) (6)} Mobile: ^{(b) (6)}

To:Brandy, Aesha (NIH/OD) [C] (b) (6)Cc:Bundesen, Liza (NIH/OD) [E] (b) (6)	Kosub, David (NIH/OD) [E] ^{(b) (6)} Lauer, Michael
(NIH/OD) [E] ^{(b) (6)} From: Lauer, Michael (NIH/OD) [E][/O=EXCHANGELABS/O (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=90FE9CAE30C64	
Sent: Fri 5/1/2020 7:24:33 AM (UTC-05:00) Subject: Re: NIH FOIA #54085 - Meredith Wadman of Science Wuhan FOIA.zip	Magazine - Due by Friday May 8th
Hi again Aesha – <u>ODNI announced yesterday</u> that there is an o laboratory.	ngoing investigation into safety and security breaches at the Wuhan
Thus, given that there is an ongoing investigation, ^{(b) (5)}	
Best, Mike	
From: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)} Date: Thursday, April 30, 2020 at 8:48 PM To: "Brandy, Aesha (NIH/OD) [C]" < ^{(b) (6)} Cc: "Bundesen, Liza (NIH/OD) [E]" < ^{(b) (6)} "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)} Subject: Re: NIH FOIA #54085 - Meredith Wadman of Scie	"Kosub, David (NIH/OD) [E]" < ^{(b) (6)} ence Magazine - Due by Friday May 8th
Hi Aesha – see attached.	
Thanks, Mike	
From: "Brandy, Aesha (NIH/OD) [C]" < ^{(b) (6)} Date: Thursday, April 30, 2020 at 8:27 PM To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)} Cc: "Bundesen, Liza (NIH/OD) [E]" < ^{(b) (6)} Subject: RE: NIH FOIA #54085 - Meredith Wadman of Scie Apologies Mike – Can you send me documents by next Friday, Best, <i>Aesha</i>	
From: Brandy, Aesha (NIH/OD) [C] Sent: Thursday, April 30, 2020 8:26 PM To: Lauer, Michael (NIH/OD) [E] < ^{(b) (6)} Cc: Bundesen, Liza (NIH/OD) [E] < ^{(b) (6)} Subject: NIH FOIA #54085 - Meredith Wadman of Science Mag	sub, David (NIH/OD) [E] < ^{(b) (6)} azine - Due by Friday April 8th
Hi Mike – Please see the NIH FOIA request below from Science Magazine Friday, May 8 th , if possible. Let me know if you have any questi	. Would you forward any responsive documents to me by COB ons or feel this should be sent to another SME for input.
Thanks.	
Best, <i>Aesha</i>	
From: ^{(b) (6)} < ^{(b) (6)} Sent: Tuesday, April 28, 2020 10:47 AM To: NIH FOIA < ^{(b) (6)} Subject: NIH FOIA - Assignment Notification from NIH FOIA Pu	olic Portal-Tracking # 54085

Request # 54085 was submitted through the NIH FOIA Public Portal and assigned to you for review and further processing.

Please review the request and if all required details have not been provided by the requester, be sure to use the "Stop Clock" option to ensure processing time for the request is accurately monitored while waiting for clarification/information from the requester.

Request Description:

Dear NIH FOIA staff:

I'm a reporter with Science. I'm requesting on an expedited basis a response to the following FOIA. The expedition is requested because of the urgent and pressing public health threat posed by the novel coronavirus -- and the possibility that political considerations caused NIH to cut off a grant that was probing the bat-to-human transmission that very possibly launched the current pandemic. See the April 27 Politico article under the headline: "Trump cuts U.S. research on bat-human virus transmission over China ties; The National Institutes of Health on Friday told EcoHealth Alliance, the study's sponsor for the past five years, that all future funding was cut."

The NIH's possible stifling of foundational research germane to both this epidemic and the prevention of future pandemics a time when Americans are dying in their thousands is clearly a matter of urgent and pressing concern for public safety, thus my request for expedition.

I'm requesting, for the period October 1 2019 to today, April 28, 2020:

1. All correspondence (including emails, written memos or letters, memos of phone conversations, and texts) between senior NIH officials Francis Collins, Michael Lauer, Lawrence Tabak, Tony Fauci and anyone else at NIH they copied on such correspondence, or who initiated such correspondence, concerning the grant to EcoHealth Alliance, R01 Al110964, "Understanding the Risk of Bat Coronavirus Emergence."

2. All correspondence between the senior NIH officials listed in (1.) above and any officials in the Department of Health and Human Services concerning the grant to EcoHealth Alliance, R01 Al110964, "Understanding the Risk of Bat Coronavirus Emergence."

3. All correspondence between the senior NIH officials listed in (1.) above and any officials in the Department of State concerning the grant to EcoHealth Alliance, R01 Al110964, "Understanding the Risk of Bat Coronavirus Emergence."

4. All correspondence between the senior NIH officials listed in (1.) above and any officials at EcoHealth Alliance concerning the grant to EcoHealth Alliance, R01 Al110964, "Understanding the Risk of Bat Coronavirus Emergence."

5. All correspondence between the senior NIH officials listed in (1.) above and any White House employees concerning the grant to EcoHealth Alliance, R01 Al110964, "Understanding the Risk of Bat Coronavirus Emergence."

Thanks for considering this request.

Sincerely,

Meredith Wadman, BM, BCh

Reporter

Science Magazine

1200 New York Avenue N.W., #1144

Washington, D.C. 20005

Email: mwadman@aaas.org

Cell: 703-343-3572

(Date Range for Record Search: From 10/01/2019 To 04/28/2020)

From: "Bulls, Michelle G. (NIH/OD) [E]" < ^{(b) (6)} To: "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)} Cc: "Tarwater, Robert (NIH/OD) [E]" < ^{(b) (6)} Michelle G. (NIH/OD) [E]" < ^{(b) (6)} Elementation Subject: RE: Subrecipients Under FAIN R01AI1109 Sent: Tue 4/21/2020 7:17:39 AM (UTC-05:00)	"Lauer, Michael (NIH/OD) [E]" < ^{(b}) (6) "Bulls,
Jodi, I will review—(b) (5) into it. Thank you.	. If Mike could loop me back into the discussion, I w	vill respond to her and look
From: Black, Jodi (NIH/OD) [E] < ^{(b) (6)} Sent: Monday, April 20, 2020 10:28 PM To: Bulls, Michelle G. (NIH/OD) [E] < ^{(b) (6)} Cc: Tarwater, Robert (NIH/OD) [E] < ^{(b) (6)} (NIH/OD) [E] < ^{(b) (6)} Subject: FW: Subrecipients Under FAIN R01AI11096 Hi Michelle, how do you suggest we proceed? See		Lauer, Michael
Best, Jodi		
Jodi B. Black, PhD, MMSc Deputy Director Office of Extramural Research, NIH		
From: Mike Lauer < ^{(b) (6)} Date: Monday, April 20, 2020 at 6:55 PM To: "Bettencourt, Alice (HHS/ASFR)" < ^{(b) (6)} Cc: Mike Lauer < ^{(b) (6)} Subject: Re: Subrecipients Under FAIN R01AI110	Jodi OER < ^{(b) (6)} 0964	
Thanks Alice – looping in Jodi – we'll look into it.		
Best, Mike From: "Bettencourt, Alice (HHS/ASFR)" < ^{(b) (6)} Date: Monday, April 20, 2020 at 5:04 PM To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)} Subject: RE: Subrecipients Under FAIN R01AI110 (b) (5)	0964	
From: Lauer, Michael (NIH/OD) [E] < ^{(b) (6)} Sent: Monday, April 20, 2020 4:57 PM To: Bettencourt, Alice (HHS/ASFR) < ^{(b) (6)} Jodi (NIH/OD) [E] < ^{(b) (6)} Cc: Lauer, Michael (NIH/NHLBI) [E] < ^{(b) (6)} Subject: Re: Subrecipients Under FAIN R01AI110964	Bulls, Michelle G. (NIH/OD) [E] < ^{(b) (6)}	Black,
Hi Alice – here's the info I have – from NIAID. Thank	ks, Mike	
R01-AI-110964, Peter Daszak, PI to ECOHEALTH	ALLIANCE	

Initial competitive segment (starting with Ty Funded Chinese sites:	pe 1, grant years 01-05 funded from 06/01/2014 - 05/31/2019)
East China Normal University, Shanghai	\$295,623 (5 years)
Wuhan Inst. Virology, Wuhan	\$749,966 (5 years)
Chinese collaborators (no funds awarded) a	lso located at:
Center for Disease Control and Prevention,	Guangzhou
Guangdong Entomological Institute, Shangh	ai
Yunnan Institute of Endemic Diseases Contr	
Second competitive segment (starting with	Type 2, revised NOA)
Currently in year 6 (budget period ends 6/30	0/2020, project period ends 6/30/2024)
Funded Chinese sites:	
Institute of Pathogen Biology, Beijing	\$75,600 (1 year)
Wuhan Institute of Virology, Wuhan	\$76,301 (1 year)
Chinese collaborators also located at:	
East China Normal University, Shanghai rece	eiving consultant costs for \$49,750 (1 year)
From: "Bettencourt, Alice (HHS/ASFR)" <(b) (6)	5)
Date: Monday, April 20, 2020 at 4:49 PM	
To: "Bulls, Michelle G. (NIH/OD) [E]" < ^{(b) (6)}	"Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}
Subject: Subrecipients Under FAIN R01AI11	
Subject. Subjectplents onder FAIN ROTATI	0904
Mike, Michelle,	
OMB has requested via len M to know if there	are subrecipients to Ecohealth Alliance under the subject FAIN. No subrecipients
are reported in USASpending. Could you please	
are reported in obviopending. could you picase	

Thank you,

Alice

From: To:	"Arbes, Sarah (HHS/ASL)" < ^{(b) (6)} "Tabak, Lawrence (NIH/OD) [E]" <	ъ) (б)	"Pence, Laura (HHS/ASL)" < ^{(b) (6)}	
"Wolinetz, Cc:	Carrie (NIH/OD) [E]" < ^{(b) (6)} "Hallett, Adrienne (NIH/OD) [E]" < ⁽⁰⁾	b) (6)	"Lauer, Michael (NIH/NHLBI) [E]" < ^{(b) (6)}	
"Schwetz,	Tara (NIH/OD) [E]" <(b) (6)			
Subject: Sent:	RE: Wuhan lab research Wed 4/15/2020 7:31:06 AM (UTC-	05:00)		
Very hel question	-	nd this up to AMA and a	ble to include this. Will letyou know if there are fo	llowup
question	5.			
From: Ta	bak, Lawrence (NIH/OD) [E] < ^{(b) (6)}			
	ednesday, April 15, 2020 8:24 AM			
	e, Laura (HHS/ASL) < ^{(b) (6)} tt, Adrienne (NIH/OD) [E] < ^{(b) (6)}		rie (NIH/OD) [E] < ^{(b) (6)} er, Michael (NIH/NHLBI) [E] < ^{(b) (6)}	Schwetz,
	H/OD) [E] < ^{(b) (6)}	Arbes, Sarah (HHS/ASL)		Jenwerz,
•	Re: Wuhan lab research			
Clarifying	g the resources to the Wuhan grou	D :		
Type 1 to	otal is 749,976. The Type 2, is 76,30	01 (so far). Thus total fo	r all years is: 749,976+76,301= 826,277. ^{(b) (5)}	
lt's a sub	contract going through New York.			
	contract going through New Tork.			
Let us kn	ow if you need anything else.			
Larry				
From: "	Pence, Laura (HHS/ASL)" < ^{(b) (6)}			
	ednesday, April 15, 2020 at 7:19	AM	_	
To: "Wo	linetz, Carrie (NIH/OD) [E]" < ^{(b) (i}	5)		
	ak, Lawrence (NIH/OD) [E]" < ^{(b) (}		"Hallett, Adrienne (NIH/OD) [E]"	
< ^{(b) (6)} < ^{(b) (6)}	"Lauer, Mi	chael (NIH/OD) [E]" < ⁽¹ (සාසුද (දෙදා)සංඛාන	"Schwetz, Tara (NIH/	OD) [E]"
	Re: Wuhan lab research	(HHS/ASL)" < ^{(b) (6)}		
Subject				
This is gr	eat, thanks!			
0	n Apr 15, 2020, at 7:05 AM, Woline	tz. Carrie (NIH/OD) [E] <	(b) (6) wrote:	
		,,,,,		
	nd this news release has a pretty g			
<u>ht</u>	tps://www.sciencedaily.com/relea	ses/2020/03/20031/1/	5442.htm Cheers, Carrie	
_		(L) (G)		
	om: Tabak, Lawrence (NIH/OD) [E] ent: Wednesday, April 15, 2020 6:5			
	o: Wolinetz, Carrie (NIH/OD) [E] < ^(b)		Pence, Laura (HHS/ASL) < ^{(b) (6)}	
Co	:: Hallett, Adrienne (NIH/OD) [E] < ^{(b}		Lauer, Michael (NIH/OD) [E]	
<(o) (6) Schwetz,	「ara <mark>(</mark> NIH/OD) [E] < ^{(b) (6)}	Arbes, Sarah (HHS/ASL)	
1	o) (6)			
51	ıbject: Re: Wuhan lab research			
At	tached is the paper Carrie is referr	ing to.		
La	rry			

From: "Wolinetz, Carrie (NIH/OD) [E]" < ^{(b) (6)} Date: Wednesday, April 15, 2020 at 6:50 AM To: "Pence, Laura (HHS/ASL)" < ^{(b) (6)}	"Tabak, Lawrence (NIH/OD) [E]"
(b) (6)	
Cc: "Hallett, Adrienne (NIH/OD) [E]" < ^{(b) (6)} < ^{(b) (6)} < ^{(b) (6)} "Schwetz, Tara (NIH/OD) [E]	"Lauer, Michael (NIH/OD) [E]" "<(b) (6) "Arbes, Sarah (HHS/ASL)"
Subject: RE: Wuhan lab research	
Laura,	
	(b) (5)
(b) (5)	Cheers, Carrie
From: Pence, Laura (HHS/ASL) < ^{(b) (6)}	
Sent: Tuesday, April 14, 2020 11:32 PM	
To: Tabak, Lawrence (NIH/OD) [E] <(b) (6)	
Cc: Hallett, Adrienne (NIH/OD) [E] < (b) (6) <	Lauer, Michael (NIH/OD) [E] Wolinetz, Carrie (NIH/OD) [E]
(b) (6) Arbes, Sarah (HHS/ASL) < (b) (6)	wonnetz, carrie (Nirr/OD) [E]
Subject: Re: Wuhan lab research	
	(b) (5)
Gotcha, thanks! If you have that info tomorrow morning the	at would be great.
Can't thank you an augh fan all tha infa you'up alwaadu gatte	w to up on this. If will be yowy belofy!
Can't thank you enough for all the info you've already gotte	in to us on this. If will be very helpful.
On Apr 14, 2020, at 10:52 DM. Tabak, Lawrange (NILL	(OD) [E] (0) (0)
On Apr 14, 2020, at 10:53 PM, Tabak, Lawrence (NIH	/OD) [E] < ^{(6) (6)} wrote:
Mike Lauer will need to answer this- it is a sub projec	t to the NY grant but I don't know if funding is
direct or via NY.	
Larry	
Sent from my iPhone	
On Apr 14, 2020, at 10:51 PM, Pence, Laura (H	IHS/ASL) < ^{(b) (6)} wrote:
Really helpful, thanks! So the PI in NY is the gr	antee and the institute in Wuhan is
subgrantee? Or Wuhan receives funding direc	
- 0	-
On Apr 14, 2020, at 10:43 PM, Tabak, L	awrence (NIH/OD) [E]
< ^{(b) (6)} wrote:	• • • • • •
Laura, Still working on some confirmation of d	etails, but this work is part of a large

	ntry study <mark>with Wuhan being one site.</mark> ak, is based in NY at Ecohealth Allianc 2R01AI110964-06		, DASZAK, PETER
Title:	UNDERSTANDING THE RISK OF BAT CORONAVIRUS EMERGENCE	Awardee Organization:	ECOHEALTH ALLIANCE, INC
	ojectreporter.nih.gov/project_info_de 8715&ddparam=&ddvalue=&ddsub=&		
How long	have we been giving research dollars t	o this lab? ^{(b) (5)}	
How much	have we given? ^{(b) (5)}		
For what p	urpose? ^{(b) (5)}		
	defend our research dollars going to t ommend we say	his lab for this purpose, w	hat
(b) (5)			
Anything e	else we should know? ^{(b) (5)}		
Please let Larry	us know if you need anything else.		
	ence, Laura (HHS/ASL)" < ^{(b) (6)} esday, April 14, 2020 at 9:47 PM		
"Wolinet: Tara (NIH	k, Lawrence (NIH/OD) [E]" < ^{(b) (6)} c, Carrie (NIH/OD) [E]" < ^{(b) (6)} /OD) [E]" < ^{(b) (6)}	"Schwet	z,
-	Nuhan lab research	anning Committee the fire	
drill.	e get info on this ASAP? Need for the n	iorning. Sorry for the fire	

Begin forwarded message:

From: "Arbes, Sarah (HHS/ASL)" <(b) (6)

Date: April 14, 2020 at 9:30:23 PM EDT To: "Hallett, Adrienne (NIH/OD) [E]" <(b) (6) Cc: "Morse, Sara (HHS/ASL)" <(b) (6) Subject: For AMA in the morning

Adrienne and Laura -

Can you please help me run ground truth to this article?: https://protect2.fireeye.com/url?k=f08a61fa-acdf682af08a50c5-0cc47a6a52deb99d5f233732d661&u=https://protect2.fireeye.com/url?k=79b fb5e8-25eb9cc3-79bf84d7-0cc47a6d17cc-7fe08f9f909251fb&u=https://protect2.fireeye.com/url?k=40f43 e35-1ca13726-40f40f0a-0cc47adb5650c048b52a2b043577&u=https://protect2.fireeye.com/url?k=d80 55c7b-84514507-d8056d44-0cc47adc5fa2-762234a678e2d50f&u=https://www.soundhealthandlastingwea lth.com/health-news/u-s-government-gave-3-7million-grant-towuhan-lab-that-experimented-on-coronavirus-source-bats/

Congressman Gaetz is publicly criticizing HHS/NIH for funding the Wuhan laboratory's bat research. Here's this quote from another article: "I'm disgusted to learn that for years the US government has been funding dangerous and cruel animal experiments at the Wuhan Institute, which may have contributed to the global spread of coronavirus, and research at other labs in China that have virtually no oversight from US authorities."

- How long have we been giving research dollars to this lab?
- How much have we given?
- For what purpose?

(b) (5)

If asked to defend our research dollars going to this lab for this purpose, what do you recommend we say?
 (b) (5)

Anything else we should know?

(b) (5)

Thanks much! Sarah

From: Peter Daszak < ^{(b) (6)}			
Date: Tuesday, April 21, 2020 at 7:07 PM			
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}			
Cc: "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}	Aleksei Chmura < ^{(b) (6)}	"Stemmy, Erik	
(NIH/NIAID) [E]" < ^{(b) (6)}	"Erbelding, Emily (NIH/NIAID) [E]" < ^{(b) (6)}		
Subject: RE: Please read and acknowledge receipt Actions needed regarding 2R01AI110964-06			

Dear Michael - Confirming receipt of your email. I'm also cc'ing the following people so they're aware of this request:

- 1. Our AOR Dr. Aleksei Chmura, who has access to all our records
- 2. My Program Officer for this award, Dr. Erik Stemmy & the Division Director (DMID), Dr. Emily Erberding, so they are informed and aware of the request and our response.

That said we need some time to go through the request for information and will provide this as quickly as we can.

However, I can categorically state that no funds form 2R01Al110964-06 have been sent to Wuhan Institute of Virology, nor has any contract been signed. <u>Furthermore, we will comply with NIAID requirements, of course.</u>

Concerning the request for information on all of the sites linked to this award in China, you should be aware that these are documented in our progress reports over the course of the grant. As you can understand we are under enormous pressure to generate data related to the current pandemic, and we do not want to divert staff to this effort. We are hoping the previously filed reports will satisfy this request.

We are well aware of the political concerns over the origins of this outbreak. Our collaboration with Wuhan Institute of Virology has been scientific and we have been consistently impressed with the scientific capabilities of that laboratory and its research staff. Our joint work has led to a series of critical papers published in high impact journals that served to raise awareness of the future threat coronaviruses pose for global health and therefore US national security. Scientific insights with epidemiological significance have been jointly published and our relationship has always been open and transparent and with one concern only, scientific validity. We are concerned that current actions may jeopardize 15 years of fruitful collaboration with colleagues in Wuhan, who are working at the leading edge to design vaccines and drugs that could help us fight this new threat in future years. It is quite remarkable that of the 5 vaccine candidates listed by WHO that are already in human trials, 3 have been developed in China. That said, we of course will do all we can to make sure any further questions from NIH or any Federal agency are addressed to our fullest knowledge.

Yours sincerely,

Peter Daszak President

EcoHealth Alliance 460 West 34th Street New York, NY 10001 USA

Tel.:^{(b) (6)} Website: <u>www.ecohealthalliance.org</u> Twitter: <u>@PeterDaszak</u>

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

From: Lauer, Michael (NIH/OD) [E] <^{(b) (6)} Sent: Monday, April 20, 2020 4:31 PM To: Kevin Olival <^{(b) (6)} Cc: Naomi Schrag <^{(b) (6)} <^{(b) (6)}

Peter Daszak <^{(b) (6)} Black, Jodi (NIH/OD) [E] <^{(b) (6)}

Lauer, Michael (NIH/OD) [E]

From: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)} To: Aleksei Chmura < ^{(b) (6)} Cc: "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}	Peter Daszak < ^{(b) (6)} "Stemmy, Erik (NIH/NIAID) [E]" < ^{(b) (6)} Linde, Emily (NIH/NIAID) [E]" < ^{(b) (6)}	g 2R01Al110964-06 "Erbelding, Emily "Lauer, Michael (NIH/OD) [E]"
Dear Dr. Chmura and Dr. Daszak		
Please see attached.		
Sincerely, Michael S Lauer, MD		
Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)		
From: Aleksei Chmura < ^{(b) (6)}		
Date: Thursday, April 23, 2020 at 1:50 PM	1	
To: "Lauer, Michael (NIH/OD) [E]" < (b) (6)		
Cc: Peter Daszak < ^{(b) (6)} (NIH/NIAID) [E]" < ^{(b) (6)}	"Black, Jodi (NIH/OD) [E]" < ^{(b) (6)} "Erbelding, Emily (NIH/NIAID) [E]" < ^{(b) (6)}	"Stemmy, Erik
	EIDENNING, ETTINY (INIT/INIAID) [E]	

Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06

Dear Mike,

I read that we are in agreement and in compliance with all requests. Please let us know if anything further is required. We will continue in our usual close communication with our Program Officer Erik Stemmy.

Sincerely,

-Aleksei

Aleksei Chmura Chief of Staff & Authorized Organizational Representative

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

(b) (6) (b) (6) (mobile) www.ecohealthalliance.org

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation.

On Apr 21, 2020, at 19:28, Lauer, Michael (NIH/OD) [E] < (b) (6)

wrote:

Many thanks Peter for your response.

We note that:

- No monies have gone to WIV on the Type 2 award and no contract has been signed.
- You agree that you will not provide any funds to WIV until and unless directed otherwise by NIH.
- All foreign sites for the Type 1 and Type 2 awards have been documented in the progress reports submitted to NIH.

We appreciate your working with us.

Best, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

From: Peter Daszak < ^{(b) (6)}	
Date: Tuesday, April 21, 2020 at 7:07 PM	
To: "Lauer, Michael (NIH/OD) [E]" <(b) (6)	
Cc: "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}	Aleksei Chmura < ^{(b) (6)}
"Stemmy, Erik (NIH/NIAID) [E]" < ^{(b) (6)}	"Erbelding, Emily (NIH/NIAID) [E]"
< ^{(b) (6)}	

Subject: RE: Please read and acknowledge receipt -- Actions needed regarding 2R01AI110964-06

Dear Michael - Confirming receipt of your email. I'm also cc'ing the following people so they're aware of this request:

- 1. Our AOR Dr. Aleksei Chmura, who has access to all our records
- 2. My Program Officer for this award, Dr. Erik Stemmy & the Division Director (DMID), Dr. Emily Erberding, so they are informed and aware of the request and our response.

That said we need some time to go through the request for information and will provide this as quickly as we can.

However, I can categorically state that no funds form 2R01Al110964-06 have been sent to Wuhan Institute of Virology, nor has any contract been signed. <u>Furthermore, we will comply with NIAID requirements, of course</u>. Concerning the request for information on all of the sites linked to this award in China, you should be aware that these are documented in our progress reports over the course of the grant. As you can understand we are under enormous pressure to generate data related to the current pandemic, and we do not want to divert staff to this effort. We are hoping the previously filed reports will satisfy this request.

We are well aware of the political concerns over the origins of this outbreak. Our collaboration with Wuhan Institute of Virology has been scientific and we have been consistently impressed with the scientific capabilities of that laboratory and its research staff. Our joint work has led to a series of critical papers published in high impact journals that served to raise awareness of the future threat coronaviruses pose for global health and therefore US national security. Scientific insights with epidemiological significance have been jointly published and our relationship has always been open and transparent and with one concern only, scientific validity. We are concerned that current actions may jeopardize 15 years of fruitful collaboration with colleagues in Wuhan, who are working at the leading edge to design vaccines and drugs that could help us fight this new threat in future years. It is quite remarkable that of the 5 vaccine candidates listed by WHO that are already in human trials, 3 have been developed in China. That said, we of course will do all we can to make sure any further questions from NIH or any Federal agency are addressed to our fullest knowledge.

Yours sincerely,

Peter Daszak

President

EcoHealth Alliance 460 West 34th Street New York, NY 10001 USA

Tel.: ^(b) (6) Website: <u>www.ecohealthalliance.org</u> Twitter: <u>@PeterDaszak</u>

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

From: Lauer, Michael (NIH/OD) [E] <((b) (6)		
Sent: Monday, April 20, 2020 4:31 PM		
To: Kevin Olival < ^{(b) (6)}	Peter Daszak < ^{(b) (6)}	
Cc: Naomi Schrag < ^{(b) (6)}	Black, Jodi (NIH/OD) [E] < ^{(b) (6)}	Lauer, Michael (NIH/OD)
[E] < ^{(b) (6)}		
Subjects De Dieses read and advinouslades	receipt Actions peeded recording 2	0011110064 06

Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06 Importance: High

Thank you Kevin

- We need to work with a senior responsible business official usually PI's and senior business officials are different people.
- When I looked you up on the web, I see the Columbia logo (see attached screenshot). Specifically, it appears to be Columbia University > Ecology, Evolution, and Environmental Biology > EcoHealth Alliance (labeled as an "Affiliation/Department"). Thus the web profile makes it look to me as if EcoHealth Alliance is linked to Columbia University.
- In any case, I'm looping in Dr. Daszak.
- We need to know all sites in China that have been in any way linked to this award (Type 1 and Type 2). We have data in NIH, but we want to make absolutely sure that we're of the same understanding.

We greatly appreciate your prompt attention to this matter.

Best, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

 From: Kevin Olival <^{(b) (6)}

 Date: Monday, April 20, 2020 at 4:14 PM

 To: "Lauer, Michael (NIH/OD) [E]" <^{(b) (6)}

 Cc: Naomi Schrag <^{(b) (6)}

 "Black, Jodi (NIH/OD) [E]" <^{(b) (6)}

 Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06

Dear Mike,

I received the attached letter, however please note:

1. I am not the PI on this award. You should contact Dr. Peter Daszak ($^{(b)(6)}$ and leading this project for EcoHealth Alliance.

2. Columbia University is not involved in this NIH project, and it is not clear to me why Naomi and Columbia University were included.

Thank you, Kevin

Kevin J. Olival, PhD Vice President for Research

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

(b) (6) (direct) (b) (6) (mobile) 1.212.380.4465 (fax)

www.ecohealthalliance.org

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

On Apr 20, 2020, at 2:16 PM, Lauer, Michael (NIH/OD) [E] <^{(b) (6)} wrote:

Many thanks Naomi – it would be helpful for us to know about all China-based participants in this work since the Type 1 grant started in 2014 – who they were and how much money they received. The sooner you can get us that information, the better.

Best, Mike

From: Naomi Schrag < ^{(b) (6)} Date: Sunday, April 19, 2020 at 11:59 AM
To: "Lauer, Michael (NIH/OD) [E]" <
Subject: RE: Please read and acknowledge receipt Actions needed regarding 2R01Al110964- 06
Dear Dr. Lauer, I am acknowledging receipt of this letter and will get back to you as soon as I can. Sincerely, Naomi Schrag
From: Lauer, Michael (NIH/OD) [E] < ^{(b) (6)} Sent: Sunday, April 19, 2020 11:00 AM To: ^{(b) (6)} Naomi Schrag < ^{(b) (6)} Cc: Black, Jodi (NIH/OD) [E] < ^{(b) (6)} Subject: Please read and acknowledge receipt Actions needed regarding 2R01Al110964-06 Importance: High
Dear Dr. Olival and Ms. Schrag
Please see attached.
Many thanks, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892

Phone(b)(6)	
Email:(b) (6)	

<EcoHealth Alliance re Al grant 4 19 20.pdf>

<EcoHealth Alliance re Al grant 4 19 20[2].pdf><NoA R01Al110964-06.pdf><NoA R01Al110964-01.pdf>

DEPARTMENT OF HEALTH & HUMAN SERVICES



Public Health Service

National Institutes of Health National Institute of Allergy and Infectious Diseases Bethesda, Maryland 20892

24 April 2020

Drs. Aleksei Chmura and Peter Daszak EcoHealth Alliance, Inc. 460 W 34th St Suite 1701 New York, NY 10001

Re: Termination of NIH Grant R01 AI 110964

Dear Drs. Chmura and Daszak:

I am writing to notify you that the National Institute of Allergy and Infectious Diseases (NIAID), an Institute within the National Institutes of Health (NIH), under the Department of Health and Human Services (HHS) has elected to terminate the project *Understanding the Risk of Bat Coronavirus Emergence*, funded under grant R01 AI110964, for convenience. This grant project was issued under the authorization of Sections 301 and 405 of the Public Health Service Act as amended (42 USC 241 and 284). This grant was funded as a discretionary grant as outlined in the <u>NIH Grants Policy Statement</u>, which states that the decision not to award a grant, or to award a grant at a particular funding level, is at the discretion of the agency, in accordance with NIH's dual review system.

At this time, NIH does not believe that the current project outcomes align with the program goals and agency priorities. NIAID has determined there are no animal and human ethical considerations, as this project is not a clinical trial, but rather an observational study.

As a result of this termination, a total of \$369,819.56 will be remitted to NIAID and additional drawdowns will not be supported. The remaining funds have been restricted in the HHS Payment Management System, effective immediately.

Please let me know if you have any questions concerning the information in this letter.

Sincerely, Lauer, Michael (NIH/OD) [E] Digitally signed by Lauer, Michael (NIH/OD) [E] Date: 2020.04.24 16:41:16 -04'00'

Michael S Lauer, MD NIH Deputy Director for Extramural Research Email: ^{(b) (6)}

cc: Dr. Erik Stemmy Ms. Emily Linde



Date:	April 19, 2020	
From:	Michael S Lauer, MD NIH Deputy Director for Extramural Research	Lauer, Michael Digitally signed by Lauer, Michael (NIH/OD) [E] (NIH/OD) [E] Date: 2020.04.19 10:47:40 -04'00'
To:	Kevin Olival, PhD Vice-President for Research EcoHealth Alliance (b) (6)	
	Naomi Schrag, JD Vice-President for Research Compliance, Training, and Policy Columbia University (b) (6)	

Subject: Project Number 2R01AI110964-06

Dear Dr. Olival and Ms. Schrag:

EcoHealth Alliance, Inc. is the recipient, as grantee, of an NIH grant entitled "Understanding the Risk of Bat Coronavirus Emergence." It is our understanding that one of the sub-recipients of the grant funds is the Wuhan Institute of Virology ("WIV"). It is our understanding that WIV studies the interaction between corona viruses and bats. The scientific community believes that the coronavirus causing COVID-19 jumped from bats to humans likely in Wuhan where the COVID-19 pandemic began. There are now allegations that the current crisis was precipitated by the release from WIV of the coronavirus responsible for COVID-19. Given these concerns, we are pursuing suspension of WIV from participation in Federal programs.

While we review these allegations during the period of suspension, you are instructed to cease providing any funds from the above noted grant to the WIV. This temporary action is authorized by 45 C.F.R. § 75.371(d) ("Initiate suspension or debarment proceedings as authorized under 2 C.F.R. part 180"). The incorporated OMB provision provides that the funding agency may, through suspension, immediately and temporarily exclude from Federal programs persons who are not presently responsible where "immediate action is necessary to protect the public interest." 2 C.F.R. § 180.700(c). It is in the public interest that NIH ensure that a sub-recipient has taken all appropriate precautions to prevent the release of pathogens that it is studying. This suspension of the sub-recipient does not affect the remainder of your grant assuming that no grant funds are provided to WIV following receipt of this email during the period of suspension.

Sent:	Mon 4/20/2020 3:30:59 PM (UTC-0	5:00)	
Subject:	Re: Please read and acknowledge r	eceipt Actions needed regarding 2R01AI	110964-06
From:	"Lauer, Michael (NIH/OD) [E]" <(b) (6)		
To:	Kevin Olival < ^{(b) (6)}	<(b) (6)	
Cc:	Naomi Schrag < ^{(b) (6)}	"Black, Jodi (NIH/OD) [E]" <(b) (6)	"Lauer, Michael (NIH/OD) [E]"
<(b) (6)			
Screen S	Shot 2020-04-20 at 4.23.38 PM.png		
EcoHealt	th Alliance re Al grant 4 19 20.pdf		

Thank you Kevin

- We need to work with a senior responsible business official usually PI's and senior business officials are different people.
- When I looked you up on the web, I see the Columbia logo (see attached screenshot). Specifically, it appears to be Columbia University > Ecology, Evolution, and Environmental Biology > EcoHealth Alliance (labeled as an
- "Affiliation/Department"). Thus the web profile makes it look to me as if EcoHealth Alliance is linked to Columbia University.
- In any case, I'm looping in Dr. Daszak.
- We need to know all sites in China that have been in any way linked to this award (Type 1 and Type 2). We have data in NIH, but we want to make absolutely sure that we're of the same understanding.

We greatly appreciate your prompt attention to this matter.

Best, Mike

Michael S Lauer MD
NIH Deputy Director for Extramural Research
1 Center Drive, Building 1, Room 144
Bethesda, MD 20892
Phone:(b)(6)
Email: (b) (6)

From: Kevin Olival < ^{(b) (6)}			
Date: Monday, April 20, 2020 at 4:14 PM			
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}			
Cc: Naomi Schrag < ^{(b) (6)} "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}			
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1. I am not the PI on this award. You should contact Dr. Peter Daszak (^{(b) (6)} who is the PI and leading this project for EcoHealth Alliance.			
2. Columbia University is not involved in this NIH project, and it is not clear to me why Naomi and Columbia University were included.			
Thank you,			
Kevin			
Kevin L Olival PhD			

Vice President for Research

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

(b) (6)	(direct)
(b) (6)	(mobile)
1.212.380.4465	(fax)

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

On Apr 20, 2020, at 2:16 PM, Lauer, Michael (NIH/OD) [E] <(b) (6)

wrote:

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Best, Mike

From: Naomi Schrag < ^{(b) (6)}
Date: Sunday, April 19, 2020 at 11:59 AM
To: "Lauer, Michael (NIH/OD) [E]" <(b) (6)
< ^{(b) (6)} Naomi Schrag < ^{(b) (6)}
Cc: "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}
Subject: RE: Please read and acknowledge receipt Actions needed regarding 2R01AI110964-06
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Naomi Schrag
From: Lauer, Michael (NIH/OD) [E] < ^{(b) (6)}
Sent: Sunday, April 19, 2020 11:00 AM
To: (b) (6) Naomi Schrag < (b) (6)
Cc: Black, Jodi (NIH/OD) [E] < ^{(b) (6)}
Subject: Please read and acknowledge receipt Actions needed regarding 2R01AI110964-06
Importance: High
Dear Dr. Olival and Ms. Schrag
Please see attached.
Many thanks, Mike
Michael S Lauer, MD NIH Deputy Director for Extramural Research
1 Center Drive, Building 1, Room 144
Bethesda, MD 20892
Phone:(b) (6)

<EcoHealth Alliance re Al grant 4 19 20.pdf>

Email:(b) (6)



Ecology, Evolution and Environmental Biology

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FACULTY

OLIVAL, KEVIN J.

AFFILIATION/DEPARTMENT

EcoHealth Alliance

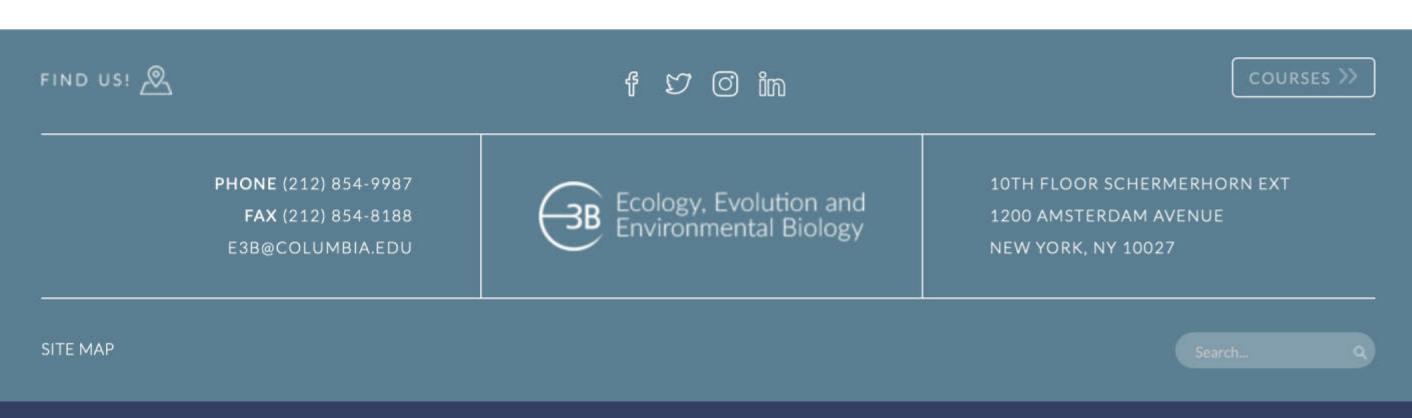
TELEPHONE (b) (6)

EMAIL

(b) (6)

WEBSITE https://www.ecohealthalliance.org/personnel/dr-kevin-j-olival

BACK TO FACULTY >>



Date:	April 19, 2020	
From:	Michael S Lauer, MD NIH Deputy Director for Extramural Research	Lauer, Michael Digitally signed by Lauer, Michael (NIH/OD) [E] (NIH/OD) [E] Date: 2020.04.19 10:47:40 -04'00'
To:	Kevin Olival, PhD Vice-President for Research EcoHealth Alliance (b) (6)	
	Naomi Schrag, JD Vice-President for Research Compliance, Training, and Policy Columbia University (b) (6)	

Subject: Project Number 2R01AI110964-06

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From: "Lauer, Michael (NIH/OD) [E]" <^{(b) (6)} To: "Tabak, Lawrence (NIH/OD) [E]" <^{(b) (6)} Cc: "Lauer, Michael (NIH/OD) [E]" <^{(b) (6)} Subject: Re: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology Sent: Wed 4/15/2020 6:23:08 AM (UTC-05:00) NoA R01AI110964-06.pdf NoA R01AI110964-01.pdf FACTS Snapshot for 2-R01-AI110964-06 DASZAK, PETER QVR.pdf

Hi Larry – on the Type 1 total is 749,976. On the Type 2, looks like the total is 76,301 (so far). Thus total is 749,976+76,301=826,277.

It's a subcontract going through New York.

Mike

From: "Tabak, Lawrence (NIH/OD) [E]" <^{(b) (b)} Date: Wednesday, April 15, 2020 at 7:12 AM To: "Lauer, Michael (NIH/OD) [E]" <^{(b) (6)} Subject: Re: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology

Mike - sorry - what is the total amount Wuhan has received since 2014?

Does the money go to NY and they send to Wuhan or do we send to Wuhan directly.

Thanks Larry

From: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}	
Date: Wednesday, April 15, 2020 at 7:11 AM	
To: "Tabak, Lawrence (NIH/OD) [E]" < ^{(b) (6)}	"Erbelding, Emily (NIH/NIAID) [E]"
Cc: "Marston, Hilary (NIH/NIAID) [E]" < ^{(b) (6)}	"Lauer, Michael (NIH/OD) [E]"

Subject: Re: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology

Thanks – just sent you budget details.

Mike

From: "Tabak, Lawrence (NIH/OD) [E]" < ^{(b) (6)}	
Date: Tuesday, April 14, 2020 at 10:12 PM	
To: "Erbelding, Emily (NIH/NIAID) [E]" < ^{(b) (6)}	
Cc: "Marston, Hilary (NIH/NIAID) [E]" < ^{(b) (6)}	"Lauer, Michael (NIH/OD) [E]"
<(b) (6)	

Subject: Re: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology

Thanks Emily.
Looping in Mike Lauer,
Larry

From: "Erbelding, Emily (NIH/NIAID) [E]" <^{(b) (6)} Date: Tuesday, April 14, 2020 at 10:11 PM To: "Tabak, Lawrence (NIH/OD) [E]" <^{(b) (6)} Cc: "Marston, Hilary (NIH/NIAID) [E]" <^{(b) (6)} Subject: Fwd: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology I am forwarding draft response below to inquiry from Rubio et al earlier.

PI is Peter Dazsak, Eco Health alliance in NYC. Wuhan subcontract is approximately 74k per year. I will try to find more accurate subcontract numbers.

Sent from my iPad Begin forwarded message:

Date: April To: "Casse (b) (6) Cc: "Ford, (b) (6) Barbara (N Subject: D Virology Dear Cristina Incorporated	d below in red font is a draft response Andrew develope Also, Andrew provid we may want to share it with the OD.	"Bateman, Karen]" < ^{(b) (6)} rmation: Senate Qs d based on his discuss	
Project Number:	2R01AI110964-06	Contact PI / Project Leader:	DASZAK, PETER
Title:	UNDERSTANDING THE RISK OF BAT CORONAVIRUS EMERGENCE	Awardee Organization:	ECOHEALTH ALLIANCE, INC.

https://projectreporter.nih.gov/project_info_description.cfm?aid=9819304&icde=49588715&ddparam=&ddvalue=& ddsub=&cr=1&csb=default&cs=ASC&pball=

1. What are the goals of the main grant:

(b) (5)

2. What are the specific activities supported by the sub to the Wuhan lab and the total costs associated with these activities. Please verify if the creation of recombinant bat in Wuhan is included in their research activities.

(b) (5)

Total award information is available in Reporter at link above but budget information about subcontracts is not publicly available as these awards are administered by the grantee institution.

From: Crawford, Chase (N	IIH/NIAID) [E] < ^{(b) (6)}		
Sent: Monday, April 13, 2	020 5:41 PM		
To: NIAID BUGS < ^{(b) (6)}			
Cc: Auchincloss, Hugh (NI	H/NIAID) [E] < ^{(b) (6)}		Harper, Jill (NIH/NIAID) [E]
	NIAID OCGR Leg < ^(b)	(6)	
Subject: Request for info	mation Senate Os -	Wuhan Institute of V	irology

Hi BUGS,

Staff to Senator Marco Rubio (R-FL) has forwarded an email to Building 1 from the White Coat Waste Project (see bottom of email chain). The forwarded message links to recent articles in The Daily Mail and the Washington Examiner on NIH support for previous coronavirus studies involving the Wuhan Institute of Virology. Building 1 has asked if NIAID has any information related to this research that we can share with staff to Senators Rubio and Mike Braun (R-IN).

To help us better understand this congressional request, is there any background information that you can provide on the activities discussed in the articles referenced below?

Thanks, Chase (b) (6)

From: LaMontagne, Karen (NIH/OD) [E] <^{(b) (6)} Sent: Monday, April 13, 2020 4:23 PM To: NIAID OCGR Leg <^{(b) (6)} Subject: Senate Qs - Wuhan Institute of Virology

Hi, NIAID,

Separately, we have heard from the offices of Senators Rubio and Braun about these linked articles:

<u>White Coat Waste</u> <u>Daily Mail</u> Washington Examiner

Both offices have asked if there's any information we can share with them related to this matter. Thanks in advance for anything you can provide.

Karen

From: Michelle Mitchell <^{(b) (6)} Date: Monday, April 13, 2020 at 3:42 PM To: Karen LaMontagne <^{(b) (6)} Subject: Sen. Rubio question - NIH funding Wuhan virus lab

Hey Karen,

Sen. Rubio's staff, Ansley Rhyne, forwarded the email below that she received regarding NIH funding for the Wuhan Institute of Virology. Her boss, along with Rep. Gaetz are working on a letter to ensure no taxpayer dollars are sent to that Institute.

Ansley requested our input. Would you ask NIAID for any information on this issue that we could be shared with Ansley?

Thank you.

MM

From: Justin Goodman <<u>justin@whitecoatwaste.org</u>> Sent: Monday, April 13, 2020 2:36 PM To: Subject: Laura- NIH funding Wuhan virus lab

I hope you had a nice weekend and are staying safe and healthy. I wanted to make sure you saw that our taxpayer watchdog group just <u>exposed</u> that the National Institutes of Health (NIH) has been sending tax dollars to the controversial Wuhan Institute of Virology for years, including for dangerous lab experiments on coronavirus-infected bats captured from caves. The <u>Daily Mail</u>, <u>Washington Examiner</u>, Drudge and others ran stories about the troubling find over the weekend.

We're working with Rep. Matt Gaetz (R-FL) and others on a sign-on letter about this and would love to work with you and Senator Rubio as well to ensure no more tax dollars are shipped to the Wuhan Institute of Virology.

I'd be happy to send over more info if you're interested and answer any questions you may have.

Thanks for looking,

Justin

Justin Goodman, M.A. Vice President, Advocacy and Public Policy White Coat Waste Project

Taxpayers shouldn't be forced to pay \$20 billion+ for **wasteful** government animal experiments.

PO Box 26029 Washington, DC 20001 Phone: 860.882.2492 Donate | Blog | Web | Twitter | Facebook



RESEARCH Department of Health and Human Services National Institutes of Health

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Grant Number: 2R01AI110964-06 REVISED FAIN: R01AI110964

Principal Investigator(s):

PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Dr. Daszak, Peter PD/PI 460 West 34th Street Suite 1701 New York, NY 100012320

Award e-mailed to: (b) (6)

Period Of Performance: Budget Period: 07/24/2019 - 06/30/2020 Project Period: 06/01/2014 - 06/30/2024

Dear Business Official:

The National Institutes of Health hereby revises this award to reflect a decrease in the amount of \$71,770 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01AI110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website

<u>http://grants.nih.gov/grants/policy/coi/</u> for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV

Sincerely your,

Tseday G Girma Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

SECTION I – AWARD DATA – 2R01AI110964-06 REVISED	
Award Calculation (U.S. Dollars)	
Salaries and Wages	\$170,123
Fringe Benefits	\$53,590
Personnel Costs (Subtotal)	\$223,713
Consultant Services	\$49,750
Materials & Supplies	\$20,850
Travel	\$15,027
Subawards/Consortium/Contractual Costs	\$229,651
Federal Direct Costs	\$538,991
Federal F&A Costs	\$122,989
Approved Budget	\$661,980
Total Amount of Federal Funds Obligated (Federal Share)	\$661,980
TOTAL FEDERAL AWARD AMOUNT	\$661,980
AMOUNT OF THIS ACTION (FEDERAL SHARE)	(\$-71,770)

SUMMARY TOTALS FOR ALL YEARS				
YR	THIS AWARD	CUMULATIVE TOTALS		
6	\$661,980	\$661,980		
7	\$637,980	\$637,980		
8	\$637,980	\$637,980		
9	\$637,980	\$637,980		
10	\$637,980	\$637,980		

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

Fiscal Information:

CFDA Name:	Allergy and Infectious Diseases Research
CFDA Number:	93.855
EIN:	1311726494A1
Document Number:	RAI110964B
PMS Account Type:	P (Subaccount)
Fiscal Year:	2019

IC	CAN	2019	2020	2021	2022	2023
AI	8472364	\$661,980	\$637,980	\$637,980	\$637,980	\$637,980

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

NIH Administrative Data:

PCC: M51C B / OC: 414B / Released: ^{(b) (6)} 08/02/2019 Award Processed: 08/05/2019 12:01:51 AM

SECTION II - PAYMENT/HOTLINE INFORMATION - 2R01AI110964-06 REVISED

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant_nih.gov/grant_/policy/awardcondition_htm</u>

SECTION III - TERMS AND CONDITIONS - 2R01AI110964-06 REVISED

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

- a. The grant program legislation and program regulation cited in this Notice of Award.
- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.

- c. 45 CFR Part 75.
- d. National Policy Requirements and all other requirements described in the NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. Federal Award Performance Goals: As required by the periodic report in the RPPR or in the final progress report when applicable.
- f. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at http://grants.nih.gov/grants/policy/awardconditions.htm for certain references cited above.)

Research and Development (R&D): All awards issued by the National Institutes of Health (NIH) meet the definition of "Research and Development" at 45 CFR Part§ 75.2. As such, auditees should identify NIH awards as part of the R&D cluster on the Schedule of Expenditures of Federal Awards (SEFA). The auditor should test NIH awards for compliance as instructed in Part V, Clusters of Programs. NIH recognizes that some awards may have another classification for purposes of indirect costs. The auditor is not required to report the disconnect (i.e., the award is classified as R&D for Federal Audit Requirement purposes but non-research for indirect cost rate purposes), unless the auditee is charging indirect costs at a rate other than the rate(s) specified in the award document(s).

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the System for Award Management (SAM). Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing thi requirement and other additional information

Thi award ha been a igned the Federal Award Identification Number (FAIN) R01AI110964 Recipients must document the assigned FAIN on each consortium/subaward issued under this award

Ba ed on the project period tart date of thi project, thi award i likely ubject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170 There are condition that may e clude thi award; ee http://grants.nih.gov/grants/policy/awardconditions.htm for additional award applicability information

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: <u>http://publicacce_____nih.gov/</u>

In accordance with the regulatory requirements provided at 45 CFR 75.113 and Appendix XII to 45 CFR Part 75, recipient that have currently active Federal grant , cooperative agreement , and procurement contracts with cumulative total value greater than \$10,000,000 must report and maintain information in the Sy tem for Award Management (SAM) about civil, criminal, and administrative proceedings in connection with the award or performance of a Federal award that reached final di po ition within the mo t recent five year period The recipient mu t al o make semiannual disclosures regarding such proceedings. Proceedings information will be made publicly available in the de ignated integrity and performance y tem (currently the Federal Awardee Performance and Integrity Information System (FAPIIS)). Full reporting requirements and procedure are found in Appendi II to 45 CFR Part 75 Thi term doe not apply to NIH fellowships.

SECTION IV – AI Special Terms and Conditions – 2R01AI110964-06 REVISED

Clinical Trial Indicator: No

This award does not support any NIH-defined Clinical Trials. See the NIH Grants Policy Statement Section 1.2 for NIH definition of Clinical Trial.

REVISED AWARD: This award is revised to adjust the budget in accordance with the letter from Aleksei Chmura/ECOHealth Alliance.

Supersedes previous Notice of Award dated 07/24/2019.

This Notice of Award (NoA) includes funds for activity with **The University of North Carolina at Chapel Hill** in the amount of **\$77,750** (**\$50,000** direct costs + **\$27,750**F&A costs).

This Notice of Award (NoA) includes funds for activity with **Wuhan Institute of Virology** in the amount of **\$76,301** (**\$70,649** direct costs + **\$5,652** F&A costs).

This Notice of Award (NoA) includes funds for activity with **Institute of Pathogen Biology** in the amount of **\$75,600** (**\$70,000** direct costs + **\$5,600** F&A costs).

The Research Performance Progress Report (RPPR), Section G.9 (Foreign component), includes reporting requirements for all research performed outside of the United States. Research conducted at the following site(s) must be reported in your RPPR:

Wuhan Institute of Virology, CHINA Institute of Pathogen Biology, CHINA East China Normal University, CHINA Duke-NUS Medical School, SINGAPORE

This award reflects current Federal policies regarding Facilities & Administrative (F&A) Costs for foreign grantees including foreign sub-awardees, and domestic awards with foreign sub-awardees. Please see: Chapter 16 Grants to Foreign Organizations, International Organizations, and Domestic Grants with Foreign Components, <u>Section 16.6 "Allowable and Unallowable Cost"</u> of the NIH Grants Policy.

This award may include collaborations with and/or between foreign organizations. Please be advised that short term travel visa expenses are an allowable expense on this grant, if justified as critical and necessary for the conduct of the project.

The budget period anniversary start date for future year(s) will be **July** 1.

Dissemination of study data will be in accord with the Recipient's accepted genomic data sharing plan as stated in the page(s) **203** of the application. Failure to adhere to the sharing plan as mutually agreed upon by the Recipient and the NIAID may result in Enforcement Actions as described in the NIH Grants Policy Statement.

This award is subject to the Clinical Terms of Award referenced in the NIH Guide for Grants and Contracts, July 8, 2002, NOT AI-02-032. These terms and conditions are hereby incorporated by

Page-5

reference, and can be accessed via the following World Wide Web address: <u>https://www.niaid.nih.gov/grants-contracts/niaid-clinical-terms-award</u> All submissions required by the NIAID Clinical Terms of Award must be forwarded electronically or by mail to the responsible NIAID Program Official identified on this Notice of Award.

Awardees who conduct research involving Select Agents (see 42 CFR 73 for the Select Agent list; and 7 CFR 331 and 9 CFR 121 for the relevant animal and plant pathogens at http://www.selectagents.gov/Regulations.html) must complete registration with CDC (or APHIS, depending on the agent) before using NIH funds. No funds can be used for research involving Select Agents if the final registration certificate is denied.

Prior to conducting a restricted experiment with a Select Agent or Toxin, awardees must notify the NIAID and must request and receive approval from CDC or APHIS.

Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well as changes in on-going experiments that would require change in the biosafety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be assumed an approval to other individuals who conduct the same restricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www.selectagents.gov/Regulations.html).

Highly Pathogenic Agent:

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment safety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/ohs/biosfty/bmbl5/bmbl5/bmbl5toc.htm</u>). Research funded under this grant mu t adhere to the BMBL, including u ing the BMBL recommended biocontainment level at a minimum. If your Institutional Biosafety Committee (or equivalent body) or designated in titutional bio afety official recommend a higher biocontainment level, the highe t recommended containment level must be used.

When ubmitting future Progre Report indicate at the beginning of the report

If no re earch with a Highly Pathogenic Agent or Select Agent ha been performed or i planned to be performed under this grant.

If your IBC or equivalent body or official has determined, for example, by conducting a risk a e ment, that the work being planned or performed under thi grant may be conducted at a biocontainment safety level that is lower than BSL3.

If the work involves Select Agents and/or Highly Pathogenic Agents, also address the following point

Any change in the u e of the Agent() or To in() including it re tricted experiments that have resulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, a determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide

A li t of the new and/or additional Agent() that will be tudied;
A description of the work that will be done with the Agent(s), and whether or not the work i a re tricted e periment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operate the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official It is important to note if the work is being done in a new location.

STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

Grants Management Specialist: Tseday G GirmaEmail: (b) (6)Phone: (b) (6)

Fax: 301-493-0597

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

SPREADSHEET SUMMARY GRANT NUMBER: 2R01AI110964-06 REVISED

INSTITUTION: ECOHEALTH ALLIANCE, INC.

Budget	Year 6	Year 7	Year 8	Year 9	Year 10
Salaries and Wages	\$170,123	\$170,123	\$170,123	\$170,123	\$170,123
Fringe Benefits	\$53,590	\$53,590	\$53,590	\$53,590	\$53,590
Personnel Costs (Subtotal)	\$223,713	\$223,713	\$223,713	\$223,713	\$223,713
Consultant Services	\$49,750	\$49,750	\$49,750	\$49,750	\$49,750
Materials & Supplies	\$20,850	\$14,850	\$14,850	\$14,850	\$14,850
Travel	\$15,027	\$15,027	\$15,027	\$15,027	\$15,027
Subawards/Consortium/Contractual	\$229,651	\$229,651	\$229,651	\$229,651	\$229,651
Co t					
Publication Co t		\$6,000	\$6,000	\$6,000	\$6,000
TOTAL FEDERAL DC	\$538,991	\$538,991	\$538,991	\$538,991	\$538,991
TOTAL FEDERAL F&A	\$122,989	\$98,989	\$98,989	\$98,989	\$98,989
TOTAL COST	\$661,980	\$637,980	\$637,980	\$637,980	\$637,980

Facilitie and Admini trative Co t	Year 6	Year 7	Year 8	Year 9	Year 10
F&A Co t Rate 1	32%	32%	32%	32%	32%
F&A Co t Ba e 1	\$384,340	\$309,340	\$309,340	\$309,340	\$309,340
F&A Cot 1	\$122,989	\$98,989	\$98,989	\$98,989	\$98,989





Grant Number:1R01Al110964-01FAIN:R01Al110964

Principal Investigator(s): PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Aleksei President 460 West 34th Street 17th Floor New York, NY 100012317

Award e-mailed to: (b) (6)

Budget Period: 06/01/2014 - 05/31/2015 **Project Period:** 06/01/2014 - 05/31/2019

Dear Business Official:

The National Institutes of Health hereby awards a grant in the amount of \$666,442 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01Al110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website http://grants.nih.gov/grants/policy/coi/ for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV.

Sincerely yours,

Laura A. Pone Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

SECTION I – AWARD DATA – 1R01AI110964-01

\$167,708
\$54,168
\$21,400
\$35,918
\$10,000
\$227,663
\$516,857
\$149,585
\$666,442
\$666,442
\$666,442
••••• <i>· ·</i> •

AMOUNT OF THIS ACTION (FEDERAL SHARE)

\$666,442

SUMMARY TOTALS FOR ALL YEARS					
YR	THIS AWARD	CUMULATIVE TOTALS			
1	\$666,442	\$666,442			
2	\$630,445	\$630,445			
3	\$611,090	\$611,090			
4	\$597,112	\$597,112			
5	\$581,646	\$581,646			

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

Fiscal Information:

CFDA Number:	93.855
EIN:	1311726494A1
Document Number:	RAI110964A

PMS Account Type:	P (Subaccount)
Fiscal Year:	2014

IC	CAN	2014	2015	2016	2017	2018
AI	8472350	\$666,442	\$630,445	\$611,090	\$597,112	\$581,646

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

NIH Administrative Data:

PCC: M51C / OC: 414A / Released: ^{(b) (6)} 05/20/2014 Award Processed: 05/08/2014 01:52:21 PM

SECTION II - PAYMENT/HOTLINE INFORMATION - 1R01AI110964-01

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant_nih.gov/grant_/policy/awardcondition_htm</u>

SECTION III - TERMS AND CONDITIONS - 1R01AI110964-01

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

a. The grant program legislation and program regulation cited in this Notice of Award.

- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.
- c. 45 CFR Part 74 or 45 CFR Part 92 as applicable.
- d. The NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at <u>http://grants.nih.gov/grants/policy/awardconditions.htm</u> for certain references cited above.)

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the Central Contractor Registration. Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing this requirement and other additional information.

This award has been assigned the Federal Award Identification Number (FAIN) R01AI110964. Recipients must document the assigned FAIN on each consortium/subaward issued under this award.

Based on the project period start date of this project, this award is likely subject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170. There are conditions that may exclude this award; see http://grants.nih.gov/grants/policy/awardconditions.htm for additional award applicability information.

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: http://publicacce____nih.gov/

Treatment of Program Income: Additional Co t

SECTION IV – AI Special Terms and Conditions – 1R01AI110964-01

THIS AWARD CONTAINS GRANT SPECIFIC RESTRICTIONS. THESE RESTRICTIONS MAY ONLY BE LIFTED BY A REVISED NOTICE OF AWARD.

RESTRICTION: This award is issued with the knowledge that subjects may be involved within the period of support, but definite plans were not set forth in the application as per 45 CFR 46.118. No human subjects may be involved in any project supported by this award until all requirements for Human Subjects research as identified in the PHS398/SF424 Instructions have been provided to and approved by NIH.

RESTRICTION: The present award is being made without a currently valid certification of IRB approval for this project with the following restriction: Only activities that are clearly severable and independent from activities that involve human subjects may be conducted pending the NIAID's acceptance of the certification of IRB review and approval.

No funds may be drawn down from the payment system and no obligations may be made against Federal funds for any research involving human subjects prior to the NIAID's notification to the grantee that the identified issues have been resolved and this restriction removed.

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This award includes funds for subcontract/consortium activity with <u>Wuhan Institute of Virology</u>, <u>CHINA</u> and is budgeted as follows:

| -Yr ′                | 1 -Y      | r 2       | -Yr 3     | -Yr 4     | -Yr 5     |
|----------------------|-----------|-----------|-----------|-----------|-----------|
| Total Direct Costs   | \$123,699 | \$128,718 | \$147,335 | \$147,335 | \$147,335 |
| F&A Costs @ 8%(MTDC) | \$9,896   | \$10,297  | \$11,787  | \$11,787  | \$11,787  |
| TOTAL COSTS          | \$133,595 | \$139,015 | \$159,122 | \$159,122 | \$159,122 |

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

## This award includes funds for subcontract/consortium activity with <u>East China Normal University</u>, CHINA and is budgeted as follows:

| -Yr                  | 1        | -Yr 2    | -Yr 3    | -Yr 4    | -Yr 5    |
|----------------------|----------|----------|----------|----------|----------|
| Total Direct Costs   | \$87,100 | \$67,300 | \$50,108 | \$39,167 | \$14,850 |
| F&A Costs @ 8%(MTDC) | \$6,968  | \$5,384  | \$4,009  | \$3,133  | \$2,404  |
| TOTAL COSTS          | \$94,068 | \$72,684 | \$54,117 | \$42,300 | \$32,454 |

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

#### Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well a change in on going e periment that would require change in the bio afety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be a umed an approval to other individual who conduct the ame re tricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www\_electagent\_gov/Regulation\_html)

#### Highly Pathogenic Agent

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment afety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/oh/bio\_fty/bmbl5/bmbl5/bmbl5toc.htm</u>) Re earch funded under thi grant must adhere to the BMBL, including using the BMBL-recommended biocontainment level at a minimum If your In titutional Bio afety Committee (or equivalent body) or de ignated institutional biosafety official recommend a higher biocontainment level, the highest recommended containment level mu t be u ed

When submitting future Progress Reports indicate at the beginning of the report:

If no research with a Highly Pathogenic Agent or Select Agent has been performed or is planned to be performed under thi grant

If your IBC or equivalent body or official ha determined, for e ample, by conducting a ri k assessment, that the work being planned or performed under this grant may be conducted at a biocontainment afety level that i lower than BSL3

If the work involve Select Agent and/or Highly Pathogenic Agent, al o addre the following points:

Any changes in the use of the Agent(s) or Toxin(s) including its restricted experiments that have re ulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, as determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide:

o A list of the new and/or additional Agent(s) that will be studied;

o A description of the work that will be done with the Agent(s), and whether or not the work is a restricted experiment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operates the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official. It is important to note if the work is being done in a new location.

#### STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

| <b>Grants Management Special</b>  | l <b>ist</b> : Laura A. Pone |                   |
|-----------------------------------|------------------------------|-------------------|
| <b>Email</b> : <sup>(b) (6)</sup> | Phone: (b) (6)               | Fax: 301-493-0597 |

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

#### SPREADSHEET SUMMARY GRANT NUMBER: 1R01AI110964-01

**INSTITUTION:** ECOHEALTH ALLIANCE, INC.

| Budget                      | Year 1    | Year 2    | Year 3    | Year 4    | Year 5    |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|
| Salarie and Wage            | \$167,708 | \$167,708 | \$167,708 | \$167,708 | \$167,708 |
| Fringe Benefit              | \$54,168  | \$54,168  | \$54,168  | \$54,168  | \$54,168  |
| Supplie                     | \$21,400  | \$19,250  | \$7,250   | \$7,000   | \$3,500   |
| Travel Co t                 | \$35,918  | \$35,918  | \$35,918  | \$35,918  | \$35,918  |
| Other Co t                  | \$10,000  | \$13,550  | \$11,050  | \$9,800   | \$9,400   |
| Con ortium/Contractual Co t | \$227,663 | \$211,699 | \$213,239 | \$201,422 | \$191,576 |
| TOTAL FEDERAL DC            | \$516,857 | \$502,293 | \$489,333 | \$476,016 | \$462,270 |
| TOTAL FEDERAL F&A           | \$149,585 | \$128,152 | \$121,757 | \$121,096 | \$119,376 |
| TOTAL COST                  | \$666,442 | \$630,445 | \$611,090 | \$597,112 | \$581,646 |

| Facilities and Administrative | Year 1    | Year 2    | Year 3    | Year 4    | Year 5    |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| Co t                          |           |           |           |           |           |
| F&A Co t Rate 1               | 44 1%     | 44 1%     | 44 1%     | 44 1%     | 44 1%     |
| F&A Cot Bae 1                 | \$339,194 | \$290,594 | \$276,094 | \$274,594 | \$270,694 |
| F&A Cot 1                     | \$149,585 | \$128,152 | \$121,757 | \$121,096 | \$119,376 |

### QVR FACTS

FACTS Data Snapshot for: 2-R01-Al110964-06 (DASZAK, PETER) Understanding the Risk of Bat Coronavirus Emergence

Launch the FACTS System FACTS

Hop to Country Project Information CHINA SINGAPORE

| Project Info      |                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------|
| Project Number    | 2-R01-Al110964-06 (as reflected under competing project number 2-R01-Al110964-06 in FACTS) |
| PI Name           | DASZAK, PETER                                                                              |
| Org Name          | ECOHEALTH ALLIANCE, INC.                                                                   |
| Project Title     | Understanding the Risk of Bat Coronavirus Emergence                                        |
| FY/Project Dates  | 2019 (Project Period from 2014-06-01 to 2024-06-30)                                        |
| Project Status    | Awarded (05)                                                                               |
| Foreign Appl Flag | Domestic Application with Foreign Collaboration (2)                                        |

#### CHINA State Department Clearance Request (SDCR ID 219890) NIAID Contact SDCR ACTIONS ACTION DATES Bernabe, Gayle Approved 2019-05-30 Click the - to hide the Research Objective listed on State Department Clearance. Phone: (b) (6) Approve Submit to State Department 2019-05-30 2019-05-29 This work is an extension and renewal of a previous award, approved under c earances 202191 and 211200. Send to Agency The aims of this research project are to examine the mechanism through which coronaviruses (CoVs) jump 2019-05-28 from animal hosts/reservoirs to humans (spillover events). To accomplish this work the PI and his team will IC Update 2019-05-24 conduct detai ed surveillance for coronaviruses in four provinces: Yuman Guizhou, Guangxi, and Guangdong. 2019-05-10 IC Save The exact sites have not yet been identified; as in the previous award, sites will be se ected from the four provinces as work progresses. Surveil ance will include sampling of wild bat populations. Samples will be collected from animals from each of these sites, and will be analyzed to determine what coronaviruses are present, and whether the viruses are able to infect humans. The investigators p an to collect samples from bats, approximately 5,000 samp es total from 15-20 species across all four provinces. Animals will be captured and lightly anesthetized if necessary. They will be swabbed (mouth/nose, urogenital tract, and rectum), and a small amount of blood will be col ected. If availab e, feces and urine will also be col ected. Nearly all wild bats will be released unharmed after sampling. A small number of bats (maximum of 2 per species) may be euthanized in order to collect ung and intestinal tissue required for characterizing viral receptors. In order to understand whether select strains of bat-borne CoVs utilize receptors found in bats have the potential to infect people, the investigators will use mice that have been genetically modified to express the human receptor for SARS-CoV. The investigators anticipate identifying 5-6 SARS-related-CoVs that will be tested in mice, using approximately 15-20 mice per virus strain. A maximum of 120 mice will be used for this work over the project. All work involving samples and viral isolates from bats will be performed at the Wuhan Institute of Virology. All animal work will be performed by trained individuals in accordance with the American Veterinary Medical Association guidelines, and the project is overseen by veterinarians. This work has also been reviewed and approved by the investigator's Institutional Animal Care and Use Committee. This project will also study human exposure to animal coronaviruses across the same four provinces in southern China. Samples will be collected from each of these sites from individuals who 1) who are highly exposed to bats in community settings, including through hunting, butchering, or general handling within the context of their living or working environment (18+ years old); and 2) patients admitted to hospitals and clinics presenting with disease symptoms of clinically-defined severe/acute respiratory illness (SARI/ARI) or Influenza-like illness (ILI) of unknown origin (12+ years old). Subjects will be enrolled on a vo untary basis and informed consent will be obtained from all participants. Consenting participants will provide biological samples and complete a questionnaire at the time of acute illness and 35 days after resolution of illness. There will be no follow-up among community participants after initial sample collection. The study population will be selected from the Yunnan, Guangxi, Guangdong, and Guizhou provinces of China. They plan to enroll: 1) in 12 clinic sites across the four provinces, 2,750 individuals (accounting for an estimated 40% loss from follow-up); and 2) in 8 community sites, 1,650 individuals per each of the four provinces, poo ed across two sites for each province for a total of 6,660 participants. Enrollment is anticipated to be 100% Asian, with a 50/50 split between males and fema es. All human subject work will be managed by the team at the Institute for Pathogen Biology. Site Flags Budget Period Verified By Verified Date Collaborator/Site (Site ID: 262256) Budget Amt ZHU, GUANGJIAN Animals: Y EAST CHINA NORMAL UNIVERSITY FWA: School of Life Science, B327 Humans: N Science building, 3663 Zhongshan Beilu Shanghai 200062

| Collaborator/Site (Site ID: 262253)<br>GUO, LI<br>INSTITUTE OF PATHOGEN BIOLOGY<br>Dong Dan San Tiao, No. 9<br>Dongcheng District<br>Beijing 100730 | Site Flags<br>Animals: N<br>FWA: Y<br>Humans: Y | Budget Period | Budget Amt | Verified By | Verified Date |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------|------------|-------------|---------------|
| Collaborator/Site (Site ID: 262252)                                                                                                                 | Site Flags                                      | Budget Period | Budget Amt | Verified By | Verified Date |
| REN, L LI<br>INSTITUTE OF PATHOGEN BIOLOGY<br>Dong Dan San Tiao, No. 9<br>Dongcheng District                                                        | Animals: N<br>FWA: Y<br>Humans: Y               |               |            |             |               |

https://apps.era.nih.gov/qvr/web/dd\_facts\_snap.cfm?applid=9819304&sourceCode=CURRENT#

Beijing 100730

PRINT CLOSE Appl Id: 981930

| Collaborator/Site (Site ID: 262251)<br>HU, BEN<br>WUHAN INSTITUTE OF VIROLOGY<br>Xiao Hong Shan, No. 44<br>Wuchang District<br>Wuhan 430071       | Site Flags<br>Animals: Y<br>FWA:<br>Humans: N | Budget Period                              | Budget Amt | Verified By                                     | Verified Date                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------------------------|
| Collaborator/Site (Site ID: 261948)<br>SHI, ZHENG LI<br>WUHAN INSTITUTE OF VIROLOGY<br>Xiao Hong SHan, No. 44<br>Wuchang District<br>Wuhan 430071 | Site Flags<br>Animals: Y<br>FWA:<br>Humans: N | Budget Period                              | Budget Amt | Verified By                                     | Verified Date                                                      |
| Collaborator/Site (Site ID: 262250)<br>ZHOU, PENG<br>WUHAN INSTITUTE OF VIROLOGY<br>Xiao Hong SHan, No. 44<br>Wuchang District<br>Wuhan 430071    | Site Flags<br>Animals: Y<br>FWA:<br>Humans: N | Budget Period                              | Budget Amt | Verified By                                     | Verified Date                                                      |
| SINGAPORE                                                                                                                                         |                                               |                                            |            |                                                 |                                                                    |
| State Department Clearance Request (SDCR ID 219753)                                                                                               |                                               | NIAID Contact                              | SDCR       | ACTIONS                                         | ACTION DATES                                                       |
| C ick the + to show the Research Objective listed on State Department (                                                                           | Clearance                                     | <u>Bernabe, Gayle</u><br>Phone: 301-451-10 | Send       | Approval<br>to Agency<br>it to State Department | 2019-05-20<br>2019-05-20<br>2019-05-06<br>2019-05-06<br>2019-05-01 |
| Collaborator/Site (Site ID: 262258)<br>WANG, LINFA<br>DUKE-NUS MEDICAL SCHOOL                                                                     | Site Flags<br>Animals: N<br>FWA:              | Budget Period                              | Budget Amt | Verified By                                     | Verified Date                                                      |
| 8 College Road<br>Singapore 169857                                                                                                                | Humans: N                                     |                                            |            |                                                 |                                                                    |

| From:    | "Tabak, Lawrend | ce (NIH/OD) [E]" < <sup>(b) (6)</sup>   |         |                                               |
|----------|-----------------|-----------------------------------------|---------|-----------------------------------------------|
| To:      |                 | (NIH/OD) [E]" < <sup>(b) (6)</sup>      | "Fauci, | Anthony (NIH/NIAID) [E]" < <sup>(b) (6)</sup> |
| Cc:      |                 | y (NIH/NIAID) [E]" < <sup>(b) (6)</sup> |         | "Fenton, Matthew (NIH/NIAID) [E]"             |
| <(b) (6) |                 | "Marston, Hilary (NIH/NIAID) [E]" <(b)  | (6)     | "Lauer, Michael (NIH/OD) [E]"                 |
| <(b) (6) |                 | "Schwetz, Tara (NIH/OD) [E]" <(b) (6)   |         | "Wolinetz, Carrie (NIH/OD) [E]"               |
| <(b) (6) |                 |                                         |         |                                               |
| Subject: | HEADS UP: Wu    | han lab research                        |         |                                               |
| Sent:    | Wed 4/15/2020   | 9:58:57 AM (UTC-05:00)                  |         |                                               |

Francis, Tony -

The WH has strongly embraced concerns raised by Congressman Gaetz who is publicly <u>criticizing</u> HHS/NIH for funding the Wuhan laboratory's bat research. Here's this quote from another article: "I'm disgusted to learn that for years the US government has been funding dangerous and cruel animal experiments at the Wuhan Institute, which may have contributed to the global spread of coronavirus, and research at other labs in China that have virtually no oversight from US authorities."

This is a large multi- country study with Wuhan being one site. The principal investigator, Peter Daszak, is based in NY at Ecohealth Alliance, Inc

| Project<br>Number: | 2R01AI110964-06                                        | Contact PI / Project<br>Leader: | DASZAK, PETER            |
|--------------------|--------------------------------------------------------|---------------------------------|--------------------------|
| Title:             | UNDERSTANDING THE RISK OF BAT CORONAVIRUS<br>EMERGENCE | Awardee<br>Organization:        | ECOHEALTH ALLIANCE, INC. |

https://projectreporter.nih.gov/project\_info\_description.cfm?aid=9819304&icde=49588715&ddparam=&ddvalue=&ddsub=&cr=1 &csb=default&cs=ASC&pball=

The 3.7M dollar figure is the total over 6 years to all sites which include (several in) China, Thailand, Cambodia, Laos, Vietnam, Malaysia, Indonesia, and Myanmar.

It is in year 6 of a total of 10 year.

More by phone. Larry

| [E]" < <sup>(b) (6)</sup><br>Subject:<br>Sent: | "Lauer, Michael (NIH/OD) [E]" <<br>Aleksei Chmura < <sup>(b) (6</sup><br>Peter Daszak < <sup>(b) (6</sup><br>D) [E]" < <sup>(b) (6</sup><br>Compliance<br>Re: Please read and acknowled<br>Thur 4/23/2020 12:59:24 PM (U<br>anks Aleksei. | "Black, J<br>"Erbelding, Emily (NIH/NI/<br>Review < <sup>(b) (6)</sup><br>ge receipt Actions need |                                                                                             | "L  | "Stemmy, Erik<br>auer, Michael (NIH/OD) |  |  |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----|-----------------------------------------|--|--|
| Best, Mike                                     |                                                                                                                                                                                                                                           |                                                                                                   |                                                                                             |     |                                         |  |  |
| Date: Th<br>To: "Lau<br>Cc: Pete<br>(NIH/NI    | leksei Chmura < <sup>(b) (6)</sup><br>hursday, April 23, 2020 at 1:50<br>Jer, Michael (NIH/OD) [E]" < <sup>(b)</sup><br>er Daszak < <sup>(b) (6)</sup><br>AID) [E]" < <sup>(b) (6)</sup><br><b>:</b> Re: Please read and acknowl          | (6)<br>Black, Joo<br>"Erbelding, Emily (                                                          | di (NIH/OD) [E]" < <sup>(b)</sup><br>NIH/NIAID) [E]" < <sup>(b)</sup><br>needed regarding 2 | (6) | "Stemmy, Erik                           |  |  |

Dear Mike,

I read that we are in agreement and in compliance with all requests. Please let us know if anything further is required. We will continue in our usual close communication with our Program Officer Erik Stemmy.

Sincerely,

-Aleksei

Aleksei Chmura Chief of Staff & Authorized Organizational Representative

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

(b) (6) (b) (6) (mobile) www.ecohealthalliance.org

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation.

On Apr 21, 2020, at 19:28, Lauer, Michael (NIH/OD) [E] < (b) (6) wr

wrote:

Many thanks Peter for your response.

We note that:

- No monies have gone to WIV on the Type 2 award and no contract has been signed.
- You agree that you will not provide any funds to WIV until and unless directed otherwise by NIH.
- All foreign sites for the Type 1 and Type 2 awards have been documented in the progress reports submitted to NIH.

We appreciate your working with us.

Best, Mike

From: Peter Daszak <<sup>(b) (6)</sup> Date: Tuesday, April 21, 2020 at 7:07 PM To: "Lauer, Michael (NIH/OD) [E]" <<sup>(b) (6)</sup> Cc: "Black, Jodi (NIH/OD) [E]" <<sup>(b) (6)</sup> "Stemmy, Erik (NIH/NIAID) [E]" <<sup>(b) (6)</sup> <<sup>(b) (6)</sup>

Aleksei Chmura <<sup>(b) (6)</sup> "Erbelding, Emily (NIH/NIAID) [E]"

Subject: RE: Please read and acknowledge receipt -- Actions needed regarding 2R01AI110964-06

Dear Michael - Confirming receipt of your email. I'm also cc'ing the following people so they're aware of this request:

- 1. Our AOR Dr. Aleksei Chmura, who has access to all our records
- 2. My Program Officer for this award, Dr. Erik Stemmy & the Division Director (DMID), Dr. Emily Erberding, so they are informed and aware of the request and our response.

That said we need some time to go through the request for information and will provide this as quickly as we can.

However, I can categorically state that no funds form 2R01Al110964-06 have been sent to Wuhan Institute of Virology, nor has any contract been signed. <u>Furthermore, we will comply with NIAID requirements, of course.</u> Concerning the request for information on all of the sites linked to this award in China, you should be aware that these are documented in our progress reports over the course of the grant. As you can understand we are under enormous pressure to generate data related to the current pandemic, and we do not want to divert staff to this effort. We are hoping the previously filed reports will satisfy this request.

We are well aware of the political concerns over the origins of this outbreak. Our collaboration with Wuhan Institute of Virology has been scientific and we have been consistently impressed with the scientific capabilities of that laboratory and its research staff. Our joint work has led to a series of critical papers published in high impact journals that served to raise awareness of the future threat coronaviruses pose for global health and therefore US national security. Scientific insights with epidemiological significance have been jointly published and our relationship has always been open and transparent and with one concern only, scientific validity. We are concerned that current actions may jeopardize 15 years of fruitful collaboration with colleagues in Wuhan, who are working at the leading edge to design vaccines and drugs that could help us fight this new threat in future years. It is quite remarkable that of the 5 vaccine candidates listed by WHO that are already in human trials, 3 have been developed in China. That said, we of course will do all we can to make sure any further questions from NIH or any Federal agency are addressed to our fullest knowledge.

Yours sincerely,

Peter Daszak President

EcoHealth Alliance 460 West 34<sup>th</sup> Street New York, NY 10001 USA

Tel.:<sup>(b) (6)</sup> Website: <u>www.ecohealthalliance.org</u> Twitter: <u>@PeterDaszak</u>

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

| From: Lauer, Michael (NIH/OD) [E] < <sup>(b) (6)</sup>                                    |                                               |                         |  |  |
|-------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------|--|--|
| Sent: Monday, April 20, 2020 4:31 PM                                                      |                                               |                         |  |  |
| <b>To:</b> Kevin Olival < <sup>(b) (6)</sup>                                              | Peter Daszak < <sup>(b) (6)</sup>             |                         |  |  |
| Cc: Naomi Schrag < <sup>(b) (6)</sup>                                                     | Black, Jodi (NIH/OD) [E] < <sup>(b) (6)</sup> | Lauer, Michael (NIH/OD) |  |  |
| [E] < <sup>(b) (6)</sup>                                                                  |                                               |                         |  |  |
| Subject: Re: Please read and acknowledge receipt Actions needed regarding 2R01AI110964-06 |                                               |                         |  |  |
| Importance: High                                                                          |                                               |                         |  |  |

Thank you Kevin

• We need to work with a senior responsible business official – usually PI's and senior business officials are different people.

• When I looked you up on the web, I see the Columbia logo (see attached screenshot). Specifically, it appears to be Columbia University > Ecology, Evolution, and Environmental Biology > EcoHealth Alliance (labeled as an "Affiliation/Department"). Thus the web profile makes it look to me as if EcoHealth Alliance is linked to Columbia University.

• In any case, I'm looping in Dr. Daszak.

• We need to know all sites in China that have been in any way linked to this award (Type 1 and Type 2). We have data in NIH, but we want to make absolutely sure that we're of the same understanding.

We greatly appreciate your prompt attention to this matter.

Best, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

| From: Kevin Olival < <sup>(b) (6)</sup>                                                   |                                                 |  |  |  |
|-------------------------------------------------------------------------------------------|-------------------------------------------------|--|--|--|
| Date: Monday, April 20, 2020 at 4:14 PM                                                   |                                                 |  |  |  |
| To: "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup>                                    |                                                 |  |  |  |
| Cc: Naomi Schrag < <sup>(b) (6)</sup>                                                     | "Black, Jodi (NIH/OD) [E]" < <sup>(b) (6)</sup> |  |  |  |
| Subject: Re: Please read and acknowledge receipt Actions needed regarding 2R01Al110964-06 |                                                 |  |  |  |

Dear Mike,

I received the attached letter, however please note:

1. I am not the PI on this award. You should contact Dr. Peter Daszak (<sup>(b) (6)</sup> who is the PI and leading this project for EcoHealth Alliance.

2. Columbia University is not involved in this NIH project, and it is not clear to me why Naomi and Columbia University were included.

Thank you, Kevin

Kevin J. Olival, PhD Vice President for Research

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

| (b) (6) (direct)<br>(b) (6) (mobile)                                                                                                                                                                                                                                       |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1.212.380.4465 (fax)                                                                                                                                                                                                                                                       |   |
| www.ecohealthalliance.org                                                                                                                                                                                                                                                  |   |
| EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation                                                                                                                                                                          |   |
|                                                                                                                                                                                                                                                                            |   |
| On Apr 20, 2020, at 2:16 PM, Lauer, Michael (NIH/OD) [E] < (b) (6) wrote:                                                                                                                                                                                                  |   |
| Many thanks Naomi – it would be helpful for us to know about <mark>all</mark> China-based participants in this worl<br>since the Type 1 grant started in 2014 – who they were and how much money they received. The<br>sooner you can get us that information, the better. | ¢ |
| Best, Mike                                                                                                                                                                                                                                                                 |   |
| From: Naomi Schrag < <sup>(b) (6)</sup>                                                                                                                                                                                                                                    |   |
| Date: Sunday, April 19, 2020 at 11:59 AM<br>To: "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup> " <sup>(b) (6)</sup>                                                                                                                                                    |   |
| $<^{(b)}$ (6) Naomi Schrag $<^{(b)}$ (6)                                                                                                                                                                                                                                   |   |
| Cc: "Black, Jodi (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                                                                                                                                                        |   |
| Subject: RE: Please read and acknowledge receipt Actions needed regarding 2R01Al110964-<br>06                                                                                                                                                                              |   |
| Dear Dr. Lauer,                                                                                                                                                                                                                                                            |   |
| I am acknowledging receipt of this letter and will get back to you as soon as I can.                                                                                                                                                                                       |   |
| Sincerely,                                                                                                                                                                                                                                                                 |   |
| Naomi Schrag                                                                                                                                                                                                                                                               |   |
|                                                                                                                                                                                                                                                                            |   |
| From: Lauer, Michael (NIH/OD) [E] < <sup>(6)</sup>                                                                                                                                                                                                                         |   |
| Sent: Sunday, April 19, 2020 11:00 AM<br>To: <sup>(b) (6)</sup> Naomi Schrag < <sup>(b) (6)</sup>                                                                                                                                                                          |   |
|                                                                                                                                                                                                                                                                            |   |
| Cc: Black, Jodi (NIH/OD) [E] < <sup>(b) (6)</sup><br>Subject: Please read and acknowledge receipt Actions needed regarding 2R01AI110964-06                                                                                                                                 |   |
| Importance: High                                                                                                                                                                                                                                                           |   |
|                                                                                                                                                                                                                                                                            |   |
| Dear Dr. Olival and Ms. Schrag                                                                                                                                                                                                                                             |   |
|                                                                                                                                                                                                                                                                            |   |
| Please see attached.                                                                                                                                                                                                                                                       |   |
| Many thanks, Mike                                                                                                                                                                                                                                                          |   |
| Michael S Lauer, MD                                                                                                                                                                                                                                                        |   |
| NIH Deputy Director for Extramural Research<br>1 Center Drive, Building 1, Room 144                                                                                                                                                                                        |   |
| Bethesda, MD 20892                                                                                                                                                                                                                                                         |   |
| Phone: (b) (6)<br>Email: (b) (6)                                                                                                                                                                                                                                           |   |
|                                                                                                                                                                                                                                                                            |   |
| <ecohealth 19="" 20.pdf="" 4="" al="" alliance="" grant="" re=""></ecohealth>                                                                                                                                                                                              |   |

<EcoHealth Alliance re Al grant 4 19 20[2].pdf><NoA R01Al110964-06.pdf><NoA R01Al110964-01.pdf>

| From:       "Pence, Laura (HHS/ASL)" < <sup>(b) (6)</sup> To:       "Tabak, Lawrence (NIH/OD) [E]" < <sup>(b) (6)</sup> Cc:       "Hallett, Adrienne (NIH/OD) [E]" < <sup>(b) (6)</sup> "Schwetz, Tara (NIH/OD) [E]" < <sup>(b) (6)</sup> "Lauer, Michael (NIH/NHLBI) [E]" < <sup>(b) (6)</sup> "Subject:       RE: Wuhan lab research         Sent:       Wed 4/15/2020 7:32:17 AM (UTC-05:00)                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Got it, thanks!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| From: Tabak, Lawrence (NIH/OD) [E]       (b) (6)         Sent: Wednesday, April 15, 2020 8:24 AM         To: Pence, Laura (HHS/ASL)        (b) (6)         Cc: Hallett, Adrienne (NIH/OD) [E]        (b) (6)         Cc: Hallett, Adrienne (NIH/OD) [E]        (b) (6)         Lauer, Michael (NIH/NHLBI) [E]        (b) (6)         Subject: Re: Wuhan lab research       Arbes, Sarah (HHS/ASL)          Clarifying the resources to the Wuhan group:       Type 1 total is 749,976. The Type 2, is 76,301 (so far). Thus total for all years is: 749,976+76,301= 826,277.         (b) (5)       It's a subcontract going through New York. |
| Let us know if you need anything else.<br>Larry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| From: "Pence, Laura (HHS/ASL)" < <sup>(b) (6)</sup> Date: Wednesday, April 15, 2020 at 7:19 AM         To: "Wolinetz, Carrie (NIH/OD) [E]" < <sup>(b) (6)</sup> Cc: "Tabak, Lawrence (NIH/OD) [E]" < <sup>(b) (6)</sup> "Hallett, Adrienne (NIH/OD) [E]"         < <sup>(b) (6)</sup> "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup> "Schwetz, Tara (NIH/OD) [E]"         < <sup>(b) (6)</sup> "Arbes, Sarah (HHS/ASL)" < <sup>(b) (6)</sup> Subject: Re: Wuhan lab research                                                                                                                                                              |
| On Apr 15, 2020, at 7:05 AM, Wolinetz, Carrie (NIH/OD) [E] < <sup>(b) (6)</sup> wrote:<br>And this news release has a pretty good lay level summary of it, if it's useful: :<br><u>https://www.sciencedaily.com/releases/2020/03/200317175442.htm</u> Cheers, Carrie                                                                                                                                                                                                                                                                                                                                                                          |
| From: Tabak, Lawrence (NIH/OD) [E] < <sup>(b) (6)</sup> Sent: Wednesday, April 15, 2020 6:56 AM         To: Wolinetz, Carrie (NIH/OD) [E] < <sup>(b) (6)</sup> Pence, Laura (HHS/ASL) < <sup>(b) (6)</sup> Cc: Hallett, Adrienne (NIH/OD) [E] < <sup>(b) (6)</sup> Lauer, Michael (NIH/OD) [E]                           Schwetz, Tara (NIH/OD) [E] < <sup>(b) (6)</sup> Arbes, Sarah (HHS/ASL)               Subject: Re: Wuhan lab research         Attached is the paper Carrie is referring to.         Larry                                                                                                                             |
| From: "Wolinetz, Carrie (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Date: Wednesday, April 15, 2020 at 6:50 AM                                                                                               | _                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| To: "Pence, Laura (HHS/ASL)" < <sup>(b) (6)</sup>                                                                                        | "Tabak, Lawrence (NIH/OD) [E]"                            |
| <b>Cc:</b> "Hallett, Adrienne (NIH/OD) [E]" < <sup>(b) (6)</sup><br>< <sup>(b) (6)</sup> "Schwetz, Tara (NIH/OD) [E]                     | "Lauer, Michael (NIH/OD) [E]"<br>"Arbes, Sarah (HHS/ASL)" |
| < <sup>(b) (6)</sup>                                                                                                                     |                                                           |
| Subject: RE: Wuhan lab research                                                                                                          |                                                           |
| Laura,                                                                                                                                   |                                                           |
|                                                                                                                                          | (b) (5)                                                   |
| (b) (5)                                                                                                                                  | Cheers, Carrie                                            |
| From: Pence, Laura (HHS/ASL) < <sup>(b) (6)</sup><br>Sent: Tuesday, April 14, 2020 11:32 PM                                              |                                                           |
| To: Tabak, Lawrence (NIH/OD) [E] < <sup>(b) (6)</sup>                                                                                    |                                                           |
| Cc: Hallett, Adrienne (NIH/OD) [E] < <sup>(b) (6)</sup>                                                                                  | Lauer, Michael (NIH/OD) [E]                               |
| < <sup>(b) (6)</sup> Schwetz, Tara (NIH/OD) [E] < <sup>(b) (6)</sup><br>< <sup>(b) (6)</sup> Arbes, Sarah (HHS/ASL) < <sup>(b) (6)</sup> | <sup>6)</sup> Wolinetz, Carrie (NIH/OD) [E]               |
| Subject: Re: Wuhan lab research                                                                                                          |                                                           |
| -                                                                                                                                        |                                                           |
| Gotcha, thanks! If you have that info tomorrow morning the                                                                               | at would be great. <sup>(b) (5)</sup>                     |
|                                                                                                                                          |                                                           |
|                                                                                                                                          |                                                           |
| Can't thank you enough for all the info you've already gott                                                                              | en to us on this. If will be very helpful.                |
| On Apr 14, 2020, at 10:53 PM, Tabak, Lawrence (NI                                                                                        | H/OD) [E] < <sup>(b) (6)</sup> wrote:                     |
| Mike Lauer will need to answer this- it is a sub proje<br>direct or via NY.<br>Larry                                                     | ct to the NY grant but I don't know if funding is         |
| Sent from my iPhone                                                                                                                      |                                                           |
| On Apr 14, 2020, at 10:51 PM, Pence, Laura (                                                                                             | HHS/ASL) < <sup>(b) (6)</sup> wrote:                      |
| Really helpful, thanks! So the PI in NY is the g<br>subgrantee? Or Wuhan receives funding dire                                           |                                                           |
|                                                                                                                                          |                                                           |
| On Apr 14, 2020, at 10:43 PM, Tabak,<br>< <sup>(b) (6)</sup> wrote:                                                                      | awrence (NIH/OD) [E]                                      |
| Laura,                                                                                                                                   |                                                           |
| Still working on some confirmation of                                                                                                    | ,                                                         |
| multi- country study with Wuhan bein<br>Peter Daszak, is based in NY at Ecohea                                                           |                                                           |
| Project 2R01AI110964-06                                                                                                                  | Contact PI / DASZAK, PETER                                |

## Number:

# Project Leader:

| Title: | UNDERSTANDING THE RISK OF BAT | Awardee       | ECOHEALTH ALLIANCE, INC |
|--------|-------------------------------|---------------|-------------------------|
|        | CORONAVIRUS EMERGENCE         | Organization: |                         |

https://projectreporter.nih.gov/project\_info\_description.cfm?aid=9819304&i cde=49588715&ddparam=&ddvalue=&ddsub=&cr=1&csb=default&cs=ASC&p ball=

How long have we been giving research dollars to this lab? (b) (5)

- How much have we given?<sup>(b) (5)</sup>
- For what purpose? (b) (5)
- •
- If asked to defend our research dollars going to this lab for this purpose, what do you recommend we say
- (b) (5)

Anything else we should know?<sup>(b) (5)</sup>

Please let us know if you need anything else. Larry

| From: "Pence, Laura (HHS/ASL)" < <sup>(b) (6)</sup>     |           |
|---------------------------------------------------------|-----------|
| Date: Tuesday, April 14, 2020 at 9:47 PM                |           |
| To: "Tabak, Lawrence (NIH/OD) [E]" < <sup>(b) (6)</sup> |           |
| "Wolinetz, Carrie (NIH/OD) [E]" < <sup>(b) (6)</sup>    | "Schwetz, |
| Tara (NIH/OD) [E]" < <sup>(b) (6)</sup>                 | _         |
| Subject: Wuhan lab research                             |           |

Hi! Can we get info on this ASAP? Need for the morning. Sorry for the fire drill.

Begin forwarded message:

| From: "Arbes, Sarah (HHS/AS   | SL)" < <sup>(b) (6)</sup> |
|-------------------------------|---------------------------|
| Date: April 14, 2020 at 9:30: | 23 PM EDT                 |
| To: "Hallett, Adrienne (NIH/0 | DD) [E]"                  |
| < <sup>(b) (6)</sup>          | "Pence, Laura (HHS/ASL)"  |

 $<^{(b)(6)}$ 

Cc: "Morse, Sara (HHS/ASL)" <<sup>(b) (6)</sup> Subject: For AMA in the morning

Adrienne and Laura -

Can you please help me run ground truth to this article?: https://protect2.fireeye.com/url?k=f08a61fa-acdf682af08a50c5-0cc47a6a52deb99d5f233732d661&u=https://protect2.fireeye.com/url?k=79b fb5e8-25eb9cc3-79bf84d7-0cc47a6d17cc-7fe08f9f909251fb&u=https://protect2.fireeye.com/url?k=40f43 e35-1ca13726-40f40f0a-0cc47adb5650c048b52a2b043577&u=https://protect2.fireeye.com/url?k=d80 55c7b-84514507-d8056d44-0cc47adc5fa2-762234a678e2d50f&u=https://www.soundhealthandlastingweaa lth.com/health-news/u-s-government-gave-3-7million-grant-towuhan-lab-that-experimented-on-coronavirus-source-bats/

Congressman Gaetz is publicly criticizing HHS/NIH for funding the Wuhan laboratory's bat research. Here's this quote from another article: "I'm disgusted to learn that for years the US government has been funding dangerous and cruel animal experiments at the Wuhan Institute, which may have contributed to the global spread of coronavirus, and research at other labs in China that have virtually no oversight from US authorities."

- How long have we been giving research dollars to this lab?
- How much have we given?
- For what purpose? (b) (5)

- If asked to defend our research dollars going to this lab for this purpose, what do you recommend we say?
   (b) (5)
  - Anything else we should know?

(b) (5)

Thanks much!

Sarah

| From:<br>To:<br>Cc:<br>Subject:<br>Sent: | "Tabak, Lawrence (NIH/OD) [E]" < <sup>(b) (6)</sup><br>"Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup><br>"Black, Jodi (NIH/OD) [E]" < <sup>(b) (6)</sup><br>Re: URGENT info you requested re Wuhan<br>Mon 4/20/2020 2:06:26 PM (UTC-05:00) |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ok than                                  | ks; <sup>(b) (5)</sup>                                                                                                                                                                                                                         |
| Larry                                    |                                                                                                                                                                                                                                                |
| From: '                                  | 'Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                                                                                                                             |
|                                          | Aonday, April 20, 2020 at 2:59 PM                                                                                                                                                                                                              |
|                                          | bak, Lawrence (NIH/OD) [E]" < <sup>(b) (6)</sup><br>Jer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup> "Black, Jodi (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                            |
|                                          | : URGENT info you requested re Wuhan                                                                                                                                                                                                           |
| Hi Larry<br>Best, N                      | v – here's what we have from NIAID. We are independently requesting info from Columbia.<br>like                                                                                                                                                |
| R01-AI-                                  | 110964, Peter Daszak, PI to ECOHEALTH ALLIANCE                                                                                                                                                                                                 |
|                                          | ompetitive segment (starting with Type 1, grant years 01-05 funded from 06/01/2014 - 05/31/2019)<br>Chinese sites:                                                                                                                             |

East China Normal University, Shanghai\$295,623 (5 years)Wuhan Inst. Virology, Wuhan\$749,966 (5 years)

Chinese collaborators (no funds awarded) also located at: Center for Disease Control and Prevention, Guangzhou Guangdong Entomological Institute, Shanghai Yunnan Institute of Endemic Diseases Control and Prevention, Dali

Second competitive segment (starting with Type 2, revised NOA) Currently in year 6 (budget period ends 6/30/2020, project period ends 6/30/2024) Funded Chinese sites: Institute of Pathogen Biology, Beijing \$75,600 (1 year) Wuhan Institute of Virology, Wuhan \$76,301 (1 year)

Chinese collaborators also located at:

East China Normal University, Shanghai receiving consultant costs for \$49,750 (1 year)

| From:    | Naomi Schrag < <sup>(b) (6)</sup>                                                |
|----------|----------------------------------------------------------------------------------|
| To:      | "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup>                               |
| Cc:      | "Black, Jodi (NIH/OD) [E]" <(b) (6)                                              |
| Subject: | RE: Please read and acknowledge receipt Actions needed regarding 2R01AI110964-06 |
| Sent:    | Tue 4/21/2020 10:04:04 AM (UTC-05:00)                                            |

# Dear Mike,

Thank you very much for your email of yesterday. I regret that I did not give you a fuller explanation and can understand how this was confusing.

In looking at it again, I know the department's About page explains that, to achieve a multi-disciplinary perspective, E3B maintains ties to some faculty affiliated with partner institutions such as EcoHealth Alliance, and the American Museum of Natural History. They distinguish between "Core Faculty" and "Affiliated & Adjunct Faculty." That said, I want to stress that this context is not visible on the Faculty page you looked at. I am following up today to see whether it is possible to reformat the page.

Thank you so very much for letting me know that our pages are not clear. We certainly want them to be. Sincerely, Naomi

 From: Lauer, Michael (NIH/OD) [E] <</td>
 (b) (6)

 Sent: Monday, April 20, 2020 6:35 PM
 Kevin Olival <</td>

 To: Naomi Schrag <</td>
 (b) (6)

 Cc: Black, Jodi (NIH/OD) [E] <</td>
 Kevin Olival <</td>

 Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06

Thanks Naomi – not the impression an observer would get looking at the website (see screen shot), but we understand about the grant.

If they "are entirely separate entities" then why does Columbia identify EcoHealth Alliance as an "Affiliation/Department" on its website.

Maybe with the label "Affiliation/Department" you would have a clearly visible disclaimer that says, "EcoHealth Alliance is not affiliated with nor a department of Columbia"? – although even that is internally contradictory.

Best, Mike

| From: Naomi Schrag < <sup>(b) (6)</sup>                                                             |                                                 |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Date: Monday, April 20, 2020 at 5:19 PM                                                             |                                                 |
| To: "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup><br>" <sup>(b) (6)</sup> < <sup>(b) (6)</sup> | Kevin Olival < <sup>(b) (6)</sup>               |
| Cc: Naomi Schrag < <sup>(b) (6)</sup>                                                               | "Black, Jodi (NIH/OD) [E]" < <sup>(b) (6)</sup> |
|                                                                                                     |                                                 |

Subject: RE: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06

Dear Dr. Lauer,

Columbia and EcoHealth Alliance are entirely separate entities. Some individuals affiliated with EcoHealth Alliance do have adjunct appointments in Columbia's Ecology, Evolution, and Environmental Biology ("E3B") department, but we are not aware of any Columbia involvement with the referenced grant, and have found no agreement or record in our grants system to the contrary.

We would be happy to answer any additional questions. Thank you. Sincerely, Naomi Schrag

Naomi J. Schrag Vice President for Research Compliance, Training and Policy Office of Research Compliance and Training 475 Riverside Drive, Suite 840 New York, New York 10115

| From: Lauer, Michael (NIH/OD) [E] < <sup>(b) (6</sup> | )                                             |                             |
|-------------------------------------------------------|-----------------------------------------------|-----------------------------|
| Sent: Monday, April 20, 2020 4:31 PM                  |                                               |                             |
| To: Kevin Olival < <sup>(b) (6)</sup>                 | (b) (6)                                       |                             |
| Cc: Naomi Schrag < <sup>(b) (6)</sup>                 | Black, Jodi (NIH/OD) [E] < <sup>(b) (6)</sup> | Lauer, Michael (NIH/OD) [E] |
| <(b) (6)                                              |                                               |                             |

Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06 Importance: High

Thank you Kevin

- We need to work with a senior responsible business official usually PI's and senior business officials are different people.
- When I looked you up on the web, I see the Columbia logo (see attached screenshot). Specifically, it appears to be
- Columbia University > Ecology, Evolution, and Environmental Biology > EcoHealth Alliance (labeled as an
- "Affiliation/Department"). Thus the web profile makes it look to me as if EcoHealth Alliance is linked to Columbia University.
- In any case, I'm looping in Dr. Daszak.
- We need to know all sites in China that have been in any way linked to this award (Type 1 and Type 2). We have data in NIH, but we want to make absolutely sure that we're of the same understanding.

We greatly appreciate your prompt attention to this matter.

# Best, Mike

| Michael S Lauer, MD                         |
|---------------------------------------------|
| NIH Deputy Director for Extramural Research |
| 1 Center Drive, Building 1, Room 144        |
| Bethesda, MD 20892                          |
| Phone: (b) (6)                              |
| Email:(b) (6)                               |

| From: Kevin Olival < <sup>(b) (6)</sup>                       |                                                 |
|---------------------------------------------------------------|-------------------------------------------------|
| Date: Monday, April 20, 2020 at 4:14 PM                       |                                                 |
| <b>To:</b> "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup> |                                                 |
| Cc: Naomi Schrag < <sup>(b) (6)</sup>                         | 'Black, Jodi (NIH/OD) [E]" < <sup>(b) (6)</sup> |
| Subject: Re: Please read and acknowledge re                   | ceipt Actions needed regarding 2R01Al110964-06  |

Dear Mike,

I received the attached letter, however please note:

1. I am not the PI on this award. You should contact Dr. Peter Daszak (<sup>(b) (6)</sup> who is the PI and leading this project for EcoHealth Alliance.

2. Columbia University is not involved in this NIH project, and it is not clear to me why Naomi and Columbia University were included.

Thank you, Kevin

Kevin J. Olival, PhD Vice President for Research

# EcoHealth Alliance

460 West 34th Street, Suite 1701 New York, NY 10001

| 2014 – who they<br>better.<br>chrag < <sup>(b) (6)</sup><br>April 19, 2020 at<br>hael (NIH/OD) [I<br>(NIH/OD) [E]'' <<br>ase read and ac<br>ing receipt of this<br>chael (NIH/OD) [E]                                                  | er, Michael (NII<br>e helpful for us<br>y were and how<br>t 11:59 AM<br>[E]" < <sup>(b) (6)</sup><br>Naomi Schr<br>(b) (6)<br>cknowledge re<br>s letter and wil | H/OD) [E] <<br>to know ab<br>w much mo<br>ag < <sup>(b) (6)</sup><br>eceipt Ad | c(b) (6)<br>bout <mark>all</mark> China-b<br>oney they receiv<br>"(b) (6)<br>ctions needed | wased particip<br>ved. The soo                       | conservation<br>rote:<br>pants in this work s<br>oner you can get u<br>2R01AI110964-06 | is that                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------|
| velops science-ba<br>, at 2:16 PM, Laue<br>omi – it would be<br>n 2014 – who they<br>better.<br>chrag < <sup>(b) (6)</sup><br>April 19, 2020 at<br>hael (NIH/OD) [E]" < <sup>(</sup><br>ease read and ac<br>sing receipt of this       | er, Michael (NII<br>e helpful for us<br>y were and how<br>t 11:59 AM<br>[E]" < <sup>(b) (6)</sup><br>Naomi Schr<br>(b) (6)<br>cknowledge re<br>s letter and wil | H/OD) [E] <<br>to know ab<br>w much mo<br>ag < <sup>(b) (6)</sup><br>eceipt Ad | c(b) (6)<br>bout <mark>all</mark> China-b<br>oney they receiv<br>"(b) (6)<br>ctions needed | wased particip<br>ved. The soo                       | rote:<br>pants in this work s<br>pner you can get u                                    | is that                                              |
| velops science-ba<br>, at 2:16 PM, Laue<br>omi – it would be<br>n 2014 – who they<br>better.<br>chrag < <sup>(b) (6)</sup><br>April 19, 2020 at<br>hael (NIH/OD) [E]" < <sup>(</sup><br>ease read and ac<br>sing receipt of this       | er, Michael (NII<br>e helpful for us<br>y were and how<br>t 11:59 AM<br>[E]" < <sup>(b) (6)</sup><br>Naomi Schr<br>(b) (6)<br>cknowledge re<br>s letter and wil | H/OD) [E] <<br>to know ab<br>w much mo<br>ag < <sup>(b) (6)</sup><br>eceipt Ad | c(b) (6)<br>bout <mark>all</mark> China-b<br>oney they receiv<br>"(b) (6)<br>ctions needed | wased particip<br>ved. The soo                       | rote:<br>pants in this work s<br>pner you can get u                                    | is that                                              |
| at 2:16 PM, Laue<br>omi – it would be<br>o 2014 – who they<br>better.<br>chrag < <sup>(b) (6)</sup><br>April 19, 2020 at<br>hael (NIH/OD) [E]'' <<br>(NIH/OD) [E]'' <<br>ease read and ac<br>ing receipt of this<br>chael (NIH/OD) [E] | er, Michael (NII<br>e helpful for us<br>y were and how<br>t 11:59 AM<br>[E]" < <sup>(b) (6)</sup><br>Naomi Schr<br>(b) (6)<br>cknowledge re<br>s letter and wil | H/OD) [E] <<br>to know ab<br>w much mo<br>ag < <sup>(b) (6)</sup><br>eceipt Ad | c(b) (6)<br>bout <mark>all</mark> China-b<br>oney they receiv<br>"(b) (6)<br>ctions needed | wased particip<br>ved. The soo                       | rote:<br>pants in this work s<br>pner you can get u                                    | is that                                              |
| omi – it would be<br>n 2014 – who they<br>better.<br>chrag < <sup>(b) (6)</sup><br>April 19, 2020 at<br>hael (NIH/OD) [E]" <<br>(NIH/OD) [E]" <<br>chase read and ac<br>chael (NIH/OD) [E]<br>chael (NIH/OD) [E]                       | t 11:59 AM<br>[E]" < <sup>(b) (6)</sup><br>Naomi Schr<br>(b) (6)<br>cknowledge re<br>s letter and wil                                                           | to know ab<br>w much mo<br>rag < <sup>(b) (6)</sup><br>eceipt Ad               | oout <mark>all</mark> China-b<br>oney they recein<br>" <sup>(b) (6)</sup><br>ctions needed | ased particip<br>ved. The so                         | pants in this work s                                                                   | is that                                              |
| 2014 – who they<br>better.<br>chrag < <sup>(b) (6)</sup><br>April 19, 2020 at<br>hael (NIH/OD) [I<br>(NIH/OD) [E]'' < <sup>(</sup><br>ase read and ac<br>ing receipt of this<br>chael (NIH/OD) [E]                                     | t 11:59 AM<br>E]" < <sup>(b) (6)</sup><br>Naomi Schr<br>(b) (6)<br>cknowledge re<br>s letter and wil                                                            | w much mo<br>ag < <sup>(b) (6)</sup><br>eceipt Ad                              | un(b) (6)<br>ctions needed                                                                 | regarding                                            | oner you can get u                                                                     | is that                                              |
| April 19, 2020 at<br>hael (NIH/OD) [I<br>(NIH/OD) [E]" <<br>ase read and ac<br>ing receipt of this<br>hael (NIH/OD) [E]                                                                                                                | E]" < <sup>(b) (6)</sup><br>Naomi Schr<br>(b) (6)<br>cknowledge re<br>s letter and wil                                                                          | eceipt Ad                                                                      | ctions needed                                                                              |                                                      | 2R01AI110964-06                                                                        | 6                                                    |
| April 19, 2020 at<br>hael (NIH/OD) [I<br>(NIH/OD) [E]" <<br>ase read and ac<br>ing receipt of this<br>hael (NIH/OD) [E]                                                                                                                | E]" < <sup>(b) (6)</sup><br>Naomi Schr<br>(b) (6)<br>cknowledge re<br>s letter and wil                                                                          | eceipt Ad                                                                      | ctions needed                                                                              |                                                      | 2R01AI110964-00                                                                        | 6                                                    |
| April 19, 2020 at<br>hael (NIH/OD) [I<br>(NIH/OD) [E]" <<br>ase read and ac<br>ing receipt of this<br>hael (NIH/OD) [E]                                                                                                                | E]" < <sup>(b) (6)</sup><br>Naomi Schr<br>(b) (6)<br>cknowledge re<br>s letter and wil                                                                          | eceipt Ad                                                                      | ctions needed                                                                              |                                                      | 2R01AI110964-00                                                                        | 6                                                    |
| hael (NIH/OD) [I<br>(NIH/OD) [E]"<br>ease read and ac<br>ing receipt of this<br>chael (NIH/OD) [E]                                                                                                                                     | E]" < <sup>(b) (6)</sup><br>Naomi Schr<br>(b) (6)<br>cknowledge re<br>s letter and wil                                                                          | eceipt Ad                                                                      | ctions needed                                                                              |                                                      | 2R01AI110964-06                                                                        | 6                                                    |
| (NIH/OD) [E]" <<br>ease read and ac<br>ing receipt of this<br>chael (NIH/OD) [E]                                                                                                                                                       | Naomi Schr<br>(b) (6)<br>cknowledge re<br>s letter and wil                                                                                                      | eceipt Ad                                                                      |                                                                                            |                                                      | 2R01AI110964-00                                                                        | 6                                                    |
| ase read and ac<br>ing receipt of this<br>hael (NIH/OD) [E                                                                                                                                                                             | (6) (6)<br>cknowledge re<br>s letter and wil                                                                                                                    | eceipt Ad                                                                      |                                                                                            |                                                      | 2R01AI110964-00                                                                        | 6                                                    |
| ase read and ac<br>ing receipt of this<br>hael (NIH/OD) [E                                                                                                                                                                             | cknowledge re<br>s letter and wil                                                                                                                               | -                                                                              |                                                                                            |                                                      | 2R01AI110964-00                                                                        | 6                                                    |
| ing receipt of this<br>hael (NIH/OD) [E                                                                                                                                                                                                | s letter and wil                                                                                                                                                | -                                                                              |                                                                                            |                                                      | 2KUIAIIIU964-00                                                                        | D                                                    |
|                                                                                                                                                                                                                                        | -1 (b) (6)                                                                                                                                                      |                                                                                |                                                                                            |                                                      |                                                                                        |                                                      |
|                                                                                                                                                                                                                                        | -                                                                                                                                                               |                                                                                |                                                                                            |                                                      |                                                                                        |                                                      |
| oril 19, 2020 11:00                                                                                                                                                                                                                    | 0 AM<br>Naomi Schrag                                                                                                                                            | < <sup>(b) (6)</sup>                                                           |                                                                                            |                                                      |                                                                                        |                                                      |
| IH/OD) [E] < <sup>(b) (6)</sup>                                                                                                                                                                                                        |                                                                                                                                                                 |                                                                                |                                                                                            |                                                      |                                                                                        |                                                      |
| ead and acknowle                                                                                                                                                                                                                       |                                                                                                                                                                 | • Actions ne                                                                   | eded regarding                                                                             | 2R01AI110                                            | 964-06                                                                                 |                                                      |
| h                                                                                                                                                                                                                                      |                                                                                                                                                                 |                                                                                |                                                                                            |                                                      |                                                                                        |                                                      |
| nd Ms. Schrag                                                                                                                                                                                                                          |                                                                                                                                                                 |                                                                                |                                                                                            |                                                      |                                                                                        |                                                      |
| ned.                                                                                                                                                                                                                                   |                                                                                                                                                                 |                                                                                |                                                                                            |                                                      |                                                                                        |                                                      |
| ke                                                                                                                                                                                                                                     |                                                                                                                                                                 |                                                                                |                                                                                            |                                                      |                                                                                        |                                                      |
| r Extramural Research<br>g 1, Room 144                                                                                                                                                                                                 |                                                                                                                                                                 |                                                                                |                                                                                            |                                                      |                                                                                        |                                                      |
|                                                                                                                                                                                                                                        | nd Ms. Schrag<br>ned.<br>ke<br>r Extramural Research                                                                                                            | nd Ms. Schrag<br>ned.<br>ke<br>r Extramural Research                           | nd Ms. Schrag<br>ned.<br>ke<br>r Extramural Research                                       | nd Ms. Schrag<br>ned.<br>ke<br>r Extramural Research | nd Ms. Schrag<br>ned.<br>ke<br>r Extramural Research                                   | nd Ms. Schrag<br>ned.<br>ke<br>r Extramural Research |

| Date: Wednesday, April 22, 2020 at 9:56 AM                             |                            |  |
|------------------------------------------------------------------------|----------------------------|--|
| To: "Tabak, Lawrence (NIH/OD) [E]" <((b) (6)                           |                            |  |
| Cc: "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup>                 | "Black, Jodi (NIH/OD) [E]" |  |
| < <sup>(b) (6)</sup> "Schwetz, Tara (NIH/OD) [E]" < <sup>(b) (6)</sup> |                            |  |
| Subject: Wuhan Lab                                                     |                            |  |
| Hi Larry – in follow-up to our 1:1 earlier today, <sup>(b) (5)</sup>   |                            |  |

**(b) (5)** 

Many thanks,

Mike

<State Department cables warned of safety issues at Wuhan lab studying bat coronaviruses - The Washington Post.pdf>

<China Lab In Focus Of Coronavirus Outbreak.pdf>

<Coronavirus China Origin in Wuhan Lab Unproven, But Denials Unconvincing National Review.pdf>

<Botao Xiao origins of COVID 19 virus.pdf>

<PIIS0140673620301835.pdf>

<Daszak letter 4 24 20.pdf>

<EcoHealth Alliance re AI grant 4 19 20.pdf>

| From:       "Tabak, Lawrence (NIH/OD) [E]" <(b) (6)         To:       "Wolinetz, Carrie (NIH/OD) [E]" <(b) (6)         Cc:       "Hallett, Adrienne (NIH/OD) [E]" <(b) (6)         "Schwetz, Tara (NIH/OD) [E]" <(b) (6)       "Lauer, Michael (NIH/OD) [E]" <(b) (6)         "Subject:       Re: Wuhan lab research         Sent:       Wed 4/15/2020 5:56:24 AM (UTC-05:00)         Proximal origin of SARS-CoV-2.pdf         Attached is the paper Carrie is referring to.         Larry |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From: "Wolinetz, Carrie (NIH/OD) [E]" < <sup>(b) (6)</sup><br>Date: Wednesday, April 15, 2020 at 6:50 AM<br>To: "Pence, Laura (HHS/ASL)" < <sup>(b) (6)</sup> "Tabak, Lawrence (NIH/OD) [E]" < <sup>(b) (6)</sup><br>Cc: "Hallett, Adrienne (NIH/OD) [E]" < <sup>(b) (6)</sup> "Lauer, Michael (NIH/OD) [E]"<br>< <sup>(b) (6)</sup> "Schwetz, Tara (NIH/OD) [E]" < <sup>(b) (6)</sup> "Arbes, Sarah (HHS/ASL)"<br>< <sup>(b) (6)</sup><br>Subject: RE: Wuhan lab research<br>Laura,        |
| (b) (5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| (b) (5) Cheers, Carrie                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| From: Pence, Laura (HHS/ASL) <       (b) (6)         Sent: Tuesday, April 14, 2020 11:32 PM         To: Tabak, Lawrence (NIH/OD) [E] <       (b) (6)         Cc: Hallett, Adrienne (NIH/OD) [E] <       (b) (6)         Tara (NIH/OD) [E] <       (b) (6)         Subject: Re: Wuhan lab research       Wolinetz, Carrie (NIH/OD) [E] <                                                                                                                                                     |
| Gotcha, thanks! If you have that info tomorrow morning that would be great. <sup>(b) (5)</sup>                                                                                                                                                                                                                                                                                                                                                                                              |
| Can't thank you enough for all the info you've already gotten to us on this. If will be very helpful.                                                                                                                                                                                                                                                                                                                                                                                       |
| On Apr 14, 2020, at 10:53 PM, Tabak, Lawrence (NIH/OD) [E] < <sup>(b) (6)</sup> wrote:<br>Mike Lauer will need to answer this- it is a sub project to the NY grant but I don't know if funding is direct or via NY.<br>Larry                                                                                                                                                                                                                                                                |
| Sent from my iPhone                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| On Apr 14, 2020, at 10:51 PM, Pence, Laura (HHS/ASL) < <sup>(b) (6)</sup> wrote:<br>Really helpful, thanks! So the PI in NY is the grantee and the institute in Wuhan is subgrantee? Or<br>Wuhan receives funding directly from NIH?                                                                                                                                                                                                                                                        |

On Apr 14, 2020, at 10:43 PM, Tabak, Lawrence (NIH/OD) [E] <(b) (6) wrote:

Laura,

Still working on some confirmation of details, but this work is part of a large multi- country study with Wuhan being one site. The principal investigator, Peter Daszak, is based in NY at Ecohealth Alliance, Inc

Project 2R01AI110964-06 Number:

Contact PI / Project Leader:

DASZAK, PETER

Title: UNDERSTANDING THE RISK OF BAT CORONAVIRUS EMERGENCE

Awardee Organization: ECOHEALTH ALLIANCE, INC.

https://projectreporter.nih.gov/project\_info\_description.cfm?aid=9819304&icde=495887 15&ddparam=&ddvalue=&ddsub=&cr=1&csb=default&cs=ASC&pball=

How long have we been giving research dollars to this lab? The work began in 2014 - - - $-i_{1}$  (b) (5)

| • | How much have we given?                                                                                                                                                                                              |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • | For what purpose? <sup>(b) (5)</sup>                                                                                                                                                                                 |
| • | If asked to defend our research dollars going to this lab for this purpose, what do you recommend we say                                                                                                             |
| • | (b) (5)                                                                                                                                                                                                              |
|   | Anything else we should know? <sup>(b) (5)</sup><br>Please let us know if you need anything else.<br>Larry                                                                                                           |
|   | From: "Pence, Laura (HHS/ASL)" < $^{(b)}$ (6)<br>Date: Tuesday, April 14, 2020 at 9:47 PM<br>To: "Tabak, Lawrence (NIH/OD) [E]" < $^{(b)}$ (6)<br>(NIH/OD) [E]" < $^{(b)}$ (6)<br>(6)<br>Schwetz, Tara (NIH/OD) [E]" |

Subject: Wuhan lab research

Hi! Can we get info on this ASAP? Need for the morning. Sorry for the fire drill.

Begin forwarded message:

From: "Arbes, Sarah (HHS/ASL)" < (b) (6) Date: April 14, 2020 at 9:30:23 PM EDT

|                                                  | "Pence, |
|--------------------------------------------------|---------|
| aura (HHS/ASL)" < <sup>(b) (6)</sup>             |         |
| Cc: "Morse, Sara (HHS/ASL)" < <sup>(b) (6)</sup> |         |
| Subject: For AMA in the morning                  |         |

Adrienne and Laura -

Can you please help me run ground truth to this article?: https://protect2.fireeye.com/url?k=40f43e35-1ca13726-40f40f0a-Occ47adb5650c048b52a2b043577&u=https://protect2.fireeye.com/url?k=d8055c7b-84514507-d8056d44-0cc47adc5fa2-762234a678e2d50f&u=https://www.soundhealthandlastingwealth.com/heal th-news/u-s-government-gave-3-7million-grant-to-wuhan-lab-thatexperimented-on-coronavirus-source-bats/

Congressman Gaetz is publicly criticizing HHS/NIH for funding the Wuhan laboratory's bat research. Here's this quote from another article: "I'm disgusted to learn that for years the US government has been funding dangerous and cruel animal experiments at the Wuhan Institute, which may have contributed to the global spread of coronavirus, and research at other labs in China that have virtually no oversight from US authorities."

- How long have we been giving research dollars to this lab?
- How much have we given?
- For what purpose? (b) (5)

- If asked to defend our research dollars going to this lab for this purpose, what do you recommend we say?
   (b) (5)
  - Anything else we should know?

(b) (5)

Thanks much! Sarah

# The proximal origin of SARS-CoV-2

To the Editor — Since the first reports of novel pneumonia (COVID-19) in Wuhan, Hubei province, China, there has been considerable discussion on the origin of the causative virus, SARS-CoValso referred to as HCoV-19)Infections with SARS-CoV-2 are now widespread, and as receptor binding<sup>11</sup>. Thus, the high-affinity 4,373 deaths

known to infect humans SARS-CoVMERS-CoV and SARS-CoV-2 can cause severe disease, whereas HKU1, NL63, OC43 and purposeful manipulation. 229E are associated with mild symptoms

Here we review what can be deduced about Polybasic furin cleavage site and the origin of SARS-CoV-2 from comparativeO-linked glycans. The second notable analysis of genomic data. We offer a perspective on the notable features of the cleavage site (RRAR) at the junction of SARS-CoV-2 genome and discuss scenarios1 and S2, the two subunits of the spike by which they could have arisen. Our analyses clearly show that SARS-CoV-2 is furin and other proteases and has a role not a laboratory construct or a purposefully in determining viral infectivity and host manipulated virus.

# Notable features of the SARS-CoV-2 genome

Our comparison of alpha- and betacoronaviruses identifies two notable basis of structural studies and biochemical (Fig. 1b). Polybasic cleavage sites have experiments<sup>9,10</sup> SARS-CoV-2 appears to benot been observed in related 'lineage B' optimized for binding to the human receptor ACE2; and (ii) the spike protein of SARS-CoV-2 has a functional polybasic (furin) the insertion of 12 nucleotides/hich of three O-linked glycans around the site. sites will be discovered in other species.

1. Mutations in the receptor-binding domain of SARS-CoV-2. The receptorbinding domain (RBD) in the spike protein determine its impact on transmissibility is the most variable part of the coronavirus and pathogenesis in animal models. shown to be critical for binding to ACE2 receptors and for determining the host range of SARS-CoV-like viruse/s/ith which correspond to L455, F486, Q493, S494, N501 and Y505 in SARS-Co\F2/e CoV-2 and SARS-CoV (Fig. 1a). On the basis of structural studiesand biochemical experiments<sup>9,10</sup>, SARS-CoV-2 seems to ACE2 from humans, ferrets, cats and other of polybasic cleavage sites in HA, by species with high receptor homology

SARS-CoV-2 may bind human ACE2 with into highly pathogenic form's The high affinity, computational analyses predictacquisition of polybasic cleavage sites by that the interaction is not idealed that the RBD sequence is different from those shown in SARS-CoV to be optimal for of 11 March 2020, 121,564 cases have beekninding of the SARS-CoV-2 spike protein confirmed in more than 110 countries, with to human ACE2 is most likely the result of or key residues on the SARS-CoV-2 spike

SARS-CoV-2 is the seventh coronavirus ACE2 that permits another optimal binding like domains as glycan shields involved solution to arise. This is strong evidence that SARS-CoV-2 is not the product of

> feature of SARS-CoV-2 is a polybasic (Fig. 1b). This allows effective cleavage by related SARS-CoV-like coronavirus. As

range2. In addition, a leading proline is also an efficient solution different from those inserted at this site in SARS-CoV-2; thus, the inserted sequence is PRRA (Fig. 1b). The turn created by the proline is predicted one of the several reverse-genetic systems to result in the addition of O-linked glycans available for betacoronaviruses would to S673, T678 and S686, which flank the genomic features of SARS-CoV-2: (i) on the cleavage site and are unique to SARS-CoVe entit data irrefutably show that SARSbetacoronaviruses, although other human two scenarios that can plausibly explain betacoronaviruses, including HKU1 (lineagehe origin of SARS-CoV-2: (i) natural A), have those sites and predicted O-linkedselection in an animal host before zoonotic cleavage site at the S1-S2 boundary through cans. Given the level of genetic variation transfer; and (ii) natural selection in humans in the spike it is likely that SARS-CoV-2-like following zoonotic transfer. We also discuss additionally led to the predicted acquisition viruses with partial or full polybasic cleavage/hether selection during passage could have

The functional consequence of the polybasic cleavage site in SARS-CoV-2 is unknown, and it will be important to genome<sup>2</sup>. Six RBD amino acids have been Experiments with SARS-CoV have shown that insertion of a furin cleavage site at the location. Given the similarity of SARS-S1–S2 junction enhances cell–cell fusion without affecting viral entry. In addition, coordinates based on SARS-CoV, they are efficient cleavage of the MERS-CoV spike for its progenitor. Although RaTG13, Y442, L472, N479, D480, T487 and Y4911, enables MERS-like coronaviruses from bats ampled from a Rhinolophatfinisbat, is to infect human cells In avian influenza of these six residues differ between SARS-in highly dense chicken populations selectsthat it may not bind efficiently to human for the acquisition of polybasic cleavage sites in the hemagglutinin (HA) protein which serves a function similar to that have an RBD that binds with high affinity toof the coronavirus spike protein. Acquisitioncontain coronaviruses similar to SARSinsertion or recombination, converts

While the analyses above suggest that low-pathogenicity avian influenza viruses HA has also been observed after repeated passage in cell culture or through animals

The function of the predicted O-linked glycans is unclear, but they could create a 'mucin-like domain' that shields epitopes natural selection on a human or human-likeprotein<sup>18</sup>. Several viruses utilize mucin-

> immunoevasion. Although prediction of O-linked glycosylation is robust, experimental studies are needed to determine if these sites are used in SARS-CoV-2.

Theories of SARS-CoV-2 origins

It is improbable that SARS-CoV-2 emerged through laboratory manipulation of a noted above, the RBD of SARS-CoV-2 is optimized for binding to human ACE2 with previously predicted1. Furthermore, if genetic manipulation had been performed, probably have been usedHowever, the CoV-2 is not derived from any previously used virus backboneInstead, we propose given rise to SARS-CoV-2.

1. Natural selection in an animal host beforezoonotictransfer As many early cases of COVID-19 were linked to the Huananmarketin Wuhan<sup>1,2</sup>, it is possible that an animal source was present at this CoV-2 to bat SARS-CoV-like oronaviruses it is likely that bats serve as reservoir hosts

~96% identical overall to SARS-CoV-2, its viruses, rapid replication and transmission spike diverges in the RBD, which suggests ACE2 (Fig. 1a).

> Malayan pangolins (Mariisvanica) illegally imported into Guangdong province CoV-2<sup>21</sup>. Although the RaTG13 bat virus remains the closest to SARS-CoV-2 across the

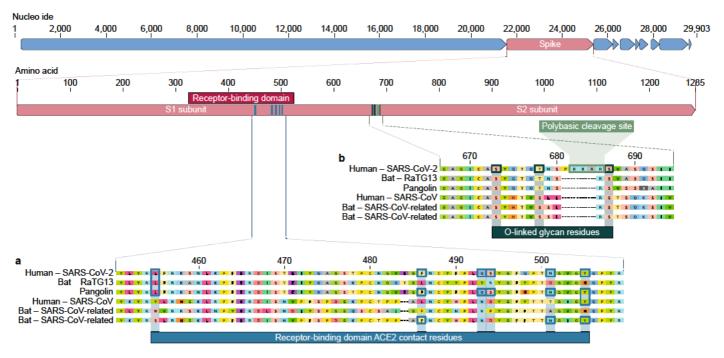


Fig. 1 | Features of the spike protein in human SARS-CoV-2 and related coronaviruses. a, Mutations in contact residues of the SArS-CoV-2 spike protein. spike protein of SArS-CoV-2 (red bar at top) was aligned against the most closely related SArS-CoV-like coronaviruses and SArS-CoV itself. Key residues in the sp ke protein that make contact to the ACE2 receptor are marked with blue boxes in both SArS-CoV-2 and related viruses, including SArS-CoV (Urbani strain). b, Acquisition of polybasic cleavage site and O-linked glycans. Both the polybasic cleavage site and the three adjacent predicted O-linked glycans are unique to SArS-CoV-2 and were not previously seen in lineage B betacoronaviruses. Sequences shown are from NCBi GenBank, accession codes MN908947, MN996532, AY278741, KY417146 and MK211376. The pangolin coronavirus sequences are a consensus generated from Srr10168377 and Srr10168378 (NCBi Biopoject prJNA573298)<sup>29,30</sup>.

genomé, somepangolincoronaviruseexhibit including all six key RBD residuesig. ). This clearly shows that the SARS-CoV-2 spikence acquired, these adaptations would ACE2 is the result of natural selection.

pangolin betacoronaviruses sampled thus no animal coronavirus has been identified that is sufficiently similar to have served as the direct progenitor of SARS-CoV-2, the diversity of coronaviruses in bats and other species is massively undersampled. near the S1-S2 junction of coronavir@ses which shows that the polybasic cleavage sitehuman-to-human transmission. can arise by a natural evolutionary process. For a precursor virus to acquire both the spike protein suitable for binding to human ACE2, an animal host would probably have 2019 to early December 2019 compatible to have a high population density (to allow natural selection to proceed efficiently) and cases. Hence, this scenario presumes a an ACE2-encoding gene that is similar to theperiod of unrecognized transmission in human ortholog.

zoonotidransfer It is possible that a progenitor of SARS-CoV-2 jumped into

humans, acquiring the genomic features human transmission over an extended strong similarity to SARS-CoV-2 in the RBD, described above through adaptation during period. This is essentially the situation for undetected human-to-human transmission. MERS-CoV, for which all human cases are the result of repeated jumps of the virus protein optimized for binding to human-like enable the pandemic to take off and producteom dromedary camels, producing single a sufficiently large cluster of cases to triggeinfections or short transmission chains that Neither the bat betacoronaviruses nor thethe surveillance system that detected it eventually resolve, with no adaptation to sustained transmission

All SARS-CoV-2 genomes sequenced far have polybasic cleavage sites. Although so far have the genomic features described above and are thus derived from a commorprovide information on whether such of SARS-CoV-2 means that we can infer this was also probably in the virus that of polybasic cleavage site to occur during

Estimates of the timing of the most recent common ancestor of SARS-CoV-2 polybasic cleavage site and mutations in themade with current sequence data point to emergence of the virus in late November with the earliest retrospectively confirmed SARS-CoV-2.

ancestor that had them too. The presence cryptic spread has occurred. Retrospective in pangolins of an RBD very similar to that serological studies could also be informative, and a few such studies have been conducted showing low-level exposures to SARS-Mutations, insertions and deletions can occurumped to humans. This leaves the insertion CoV-like coronaviruses in certain areas of China<sup>26</sup>. Critically, however, these studies could not have distinguished whether exposures were due to prior infections with SARS-CoV. SARS-CoV-2 or other SARS-CoV-like coronaviruses. Further serological studies should be conducted to determine the extent of prior human exposure to

Studies of banked human samples could

3. Selection during passage. Basic research humans between the initial zoonotic event involving passage of bat SARS-CoV-like and the acquisition of the polybasic cleavageoronaviruses in cell culture and/or animal 2. Natural selection in humans following site. Sufficient opportunity could have arise models has been ongoing for many years if there had been many prior zoonotic eventis biosafety level 2 laboratories across the world<sup>27</sup>, and there are documented instances that produced short chains of human-toof laboratory escapes of SARS-CoV We must therefore examine the possibility and the polybasic cleavage site. of an inadvertent laboratory release of SARS-CoV-2.

acquired RBD mutations (Fig. 1a) during adaptation to passage in cell culture, as has been observed in studies of virus, it is currently impossible to prove SARS-Co<sup>™</sup>. The finding of SARS-CoVlike coronaviruses from pangolins with nearly identical RBDs, however, provides a much stronger and more parsimonious explanation of how SARS-CoV-2 acquired site, in related coronaviruses in nature, we these via recombination or mutation

The acquisition of both the polybasic cleavage site and predicted O-linked glycans also argues against culture-based balance of evidence to favor one hypothesis. scenarios. New polybasic cleavage sites have been observed only after prolonged passage of low-pathogenicity avian influenzthe most definitive way of revealing viral virus in vitro or in vivo. Furthermore, a hypothetical generation of SARS-CoV-2 by cell culture or animal passage would have required prior isolation of a progenitorfrom animals would lend even further virus with very high genetic similarity, which has not been described. Subsequentlt would also be helpful to obtain more generation of a polybasic cleavage site woude netic and functional data about SARShave then required repeated passage in celCoV-2, including animal studies. The culture or animals with ACE2 receptors similar to those of humans, but such work has also not previously been described. Finally, the generation of the predicted O-linked glycans is also unlikely to have occurred due to cell-culture passage, as such features suggest the involvement of atthe ongoing surveillance of pneumonia immune system

## Conclusions

In the midst of the global COVID-19 public-health emergency, it is reasonable to wonder why the origins of the pandemic Edward C. Holme and Robert F. Garly matter. Detailed understanding of how an animal virus jumped species boundaries to The Scripps Research Institute, La Jolla, CA, USA infect humans so productively will help in the prevention of future zoonotic events. For example, if SARS-CoV-2 pre-adapted inUniversity of Edinburgh, Edinburgh, UBenter another animal species, then there is the riskr Infection and Immunity, Mailman School of of future re-emergence events. In contrast, *Public Health of Columbia University, New York, N*206298/Z/17/Z—ARTIC network) and the European of the adaptive process accurate in humans. *Public Health of Columbia University, New York, N*206298/Z/17/Z—ARTIC network) and the European of the adaptive process accurate in humans. *Public Health of Columbia University, New York, N*206298/Z/17/Z—ARTIC network) and the European of the adaptive process accurate in humans. *Public Health of Columbia University, New York, N*206298/Z/17/Z—ARTIC network) and the European of the adaptive process accurate in humans. *Public Health of Columbia University, New York, N*206298/Z/17/Z—ARTIC network) and the European of the adaptive process accurate in humans. *Public Health of Columbia University, New York, N*206298/Z/17/Z—ARTIC network) and the European of the adaptive process accurate in humans. *Public Health of Columbia* 4, 1997. *New York, N*206298/Z/17/Z—ARTIC network) and the European of the adaptive process accurate in the adaptive process accurate in the adaptive process. *Public Health of Columbia* 4, 1997. *Public* if the adaptive process occurred in humans USA.<sup>5</sup>Marie Bashir Institute for Infectious Diseases ReservoirDOCS). E.C.H. is supported by an ARC then even if repeated zoonotic transfers occur, they are unlikely to take off without Sciences and School of Medical Sciences. The the same series of mutations. In addition. identifying the closest viral relatives of SARS-CoV-2 circulating in animals will greatly assist studies of viral function. Indeed, the availability of the RaTG13 bat =mail: (b) (6)

sequence helped reveal key RBD mutations published online: 17 March 2020

The genomic features described here

Although the evidence shows that SARS-

CoV-2 is not a purposefully manipulated

or disprove the other theories of its origin

More scientific data could swing the

sequences from animal sources would be

cleavage site in a SARS-CoV-2-like virus

identification of a potential intermediate

of the virus from very early cases, would

of the exact mechanisms by which SARS-

in humans and other animals is clearly of

CoV-2 originated via natural selection,

Andrew Rambau 1, W. Ian Lipkin,

<sup>1</sup>Department of Immunology and Microbiology,

<sup>2</sup>Scripps Research Translational Institute, La

University of Sydney, Sydney, Australate

USA.7Zalgen Labs, Germantown, MD, USA.

University, School of Medicine, Department of

Microbiology and Immunology, New Orleans, LA,

Jolla, CA, USAInstitute of Evolutionary Biology,

Bamost importance.

Kristian G. Anderseħ<sup>2</sup>

over another. Obtaining related viral

based scenario is plausible.

https://doi.org/10.1038/s41591-020-0820-9

#### may explain in part the infectiousness and References

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#### Acknowledgements

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#### Competing interests

and U19AI142790.

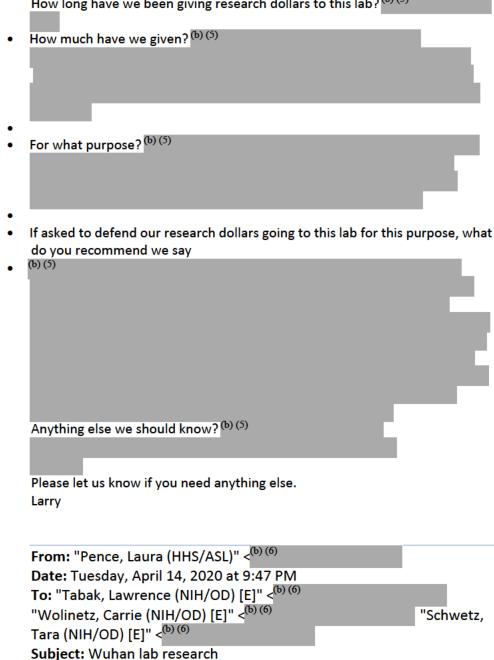
R.F.G. is co-founder of Zalgen Labs, a biotechnology company that develops countermeasures to emerging viruses

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| To: "Arb<br>Cc: "Tab<br>"Lauer, Michae<br>Subject: RE:                                                           | nce, Laura (HHS/ASL)" < <sup>(b) (6)</sup><br>es, Sarah (HHS/ASL)" < <sup>(b) (6)</sup><br>oak, Lawrence (NIH/OD) [E]" < <sup>(b) (6)</sup><br>I (NIH/NHLBI) [E]" < <sup>(b) (6)</sup><br>Wuhan lab research<br>I 4/15/2020 8:19:03 AM (UTC-05:00) | "Wolinetz, Carrie (NIH/OD)<br>"Hallett, Adrienne (N<br>"Schwetz, Tara (NIH/OD) [E]" < <sup>(b</sup>                                 | NIH/OD) [E]" < <sup>(b) (6)</sup>                               |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| ,                                                                                                                |                                                                                                                                                                                                                                                    |                                                                                                                                     |                                                                 |
| Sent: Wednes<br>To: Pence, Lau<br>Cc: Tabak, Lav<br>Michael (NIH/<br>Subject: RE: V                              | Sarah (HHS/ASL) <sup>(b) (6)</sup><br>sday, April 15, 2020 9:03 AM<br>ura (HHS/ASL) < <sup>(b) (6)</sup><br>wrence (NIH/OD) [E] < <sup>(b) (6)</sup><br>/NHLBI) [E] < <sup>(b) (6)</sup><br>Vuhan lab research                                     | Wolinetz, Carrie (NIH/OD) [E] < <sup>(b) (6)</sup><br>Hallett, Adrienne (NIH/OD)<br>Schwetz, Tara (NIH/OD) [E] < <sup>(b) (6)</sup> | [E] < <sup>(b) (6)</sup> Lauer,                                 |
| From: Pence,                                                                                                     | Laura (HHS/ASL) < <sup>(b) (6)</sup>                                                                                                                                                                                                               |                                                                                                                                     |                                                                 |
| Sent: Wednes<br>To: Wolinetz,<br>Cc: Tabak, Lav                                                                  | day, April 15, 2020 7:18 AM<br>Carrie (NIH/OD) [E] < <sup>(b) (6)</sup><br>wrence (NIH/OD) [E] < <sup>(b) (6)</sup><br>/NHLBI) [E] < <sup>(b) (6)</sup>                                                                                            | Hallett, Adrienne (NIH/OD)<br>Schwetz, Tara (NIH/OD) [E] < <sup>(b) (6)</sup>                                                       | [E] < <sup>(b) (6)</sup> Lauer,<br>Arbes, Sarah (HHS/ASL)       |
|                                                                                                                  | Vuhan lab research                                                                                                                                                                                                                                 |                                                                                                                                     |                                                                 |
| And thi                                                                                                          | 15, 2020, at 7:05 AM, Wolinetz, Car<br>is news release has a pretty good la                                                                                                                                                                        |                                                                                                                                     | wrote:                                                          |
| Sent: V<br>To: Wo<br>Cc: Hall<br>< <sup>(b) (6)</sup><br>< <sup>(b) (6)</sup>                                    | Tabak, Lawrence (NIH/OD) [E] <sup>(b) (6)</sup><br>Vednesday, April 15, 2020 6:56 AM<br>Plinetz, Carrie (NIH/OD) [E] < <sup>(b) (6)</sup><br>lett, Adrienne (NIH/OD) [E] < <sup>(b) (6)</sup><br>Schwetz, Tara (N<br>t: Re: Wuhan lab research     | Pence, Laura (HHS/AS<br>Lauer, Michael (NIH<br>H/OD) [E] < <sup>(b) (6)</sup> Arb                                                   |                                                                 |
| Attache<br>Larry                                                                                                 | ed is the paper Carrie is referring to.                                                                                                                                                                                                            |                                                                                                                                     |                                                                 |
| Date: <sup>1</sup><br>To: "Pe<br>< <sup>(b) (6)</sup><br>Cc: "Ha<br>< <sup>(b) (6)</sup><br>< <sup>(b) (6)</sup> | "Wolinetz, Carrie (NIH/OD) [E]" <<br>Wednesday, April 15, 2020 at 6:5<br>ence, Laura (HHS/ASL)" < <sup>(b) (6)</sup><br>allett, Adrienne (NIH/OD) [E]" < <sup>(b)</sup><br>"Schwetz, Ta                                                            | AM<br>"Tabak, Lawrence (N                                                                                                           | IIH/OD) [E]"<br>chael (NIH/OD) [E]"<br>"Arbes, Sarah (HHS/ASL)" |

|                                                    |                                                                                                                                                                                            |                                      | (b) (5)                  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|
| (b) (5)                                            |                                                                                                                                                                                            | Cheers, Carrie                       |                          |
| < <sup>(b) (6)</sup><br>Subject: Re: Wuhan lab re: | 020 11:32 PM<br>/OD) [E] < <sup>(b) (6)</sup><br>/OD) [E] < <sup>(b) (6)</sup><br>Schwetz, Tara (NIH/OD) [E] < <sup>(b) (6)</sup><br>Arbes, Sarah (HHS/ASL) < <sup>(b) (6)</sup><br>search |                                      | rie (NIH/OD) [E]         |
| Gotcha, thanks! If you hav                         | e that info tomorrow morning that v                                                                                                                                                        | would be great. <sup>(6) (3)</sup>   |                          |
| Can't thank you enough fo                          | or all the info you've already gotten                                                                                                                                                      | to us on this. If will be very helpf | ul.                      |
|                                                    | 10:53 PM, Tabak, Lawrence (NIH/O<br>d to answer this- it is a sub project t                                                                                                                |                                      | wrote:<br>if funding is  |
| Larry<br>Sent from my iPhon                        | ne                                                                                                                                                                                         |                                      |                          |
| On Apr 14, 20                                      | 020, at 10:51 PM, Pence, Laura (HH                                                                                                                                                         | 5/ASL) < <sup>(b) (6)</sup>          | vrote:                   |
|                                                    | II, thanks! So the PI in NY is the gran<br>Or Wuhan receives funding directly                                                                                                              |                                      |                          |
| On Ap<br>< <sup>(b) (6)</sup>                      | or 14, 2020, at 10:43 PM, Tabak, Law<br>wrote:                                                                                                                                             | rence (NIH/OD) [E]                   |                          |
| multi-                                             | orking on some confirmation of deta<br>country study with Wuhan being or<br>Daszak, is based in NY at Ecohealth a                                                                          | ne site. The principal investigator  | -                        |
| Numl<br>Title:                                     | ber:                                                                                                                                                                                       | Project Leader:                      | ECOHEALTH ALLIANCE, INC. |
| https://                                           | CORONAVIRUS EMERGENCE                                                                                                                                                                      | Organization:                        | 4&i                      |
|                                                    | 9588715&ddparam=&ddvalue=ⅆ                                                                                                                                                                 |                                      |                          |

How long have we been giving research dollars to this lab? (b) (5)



Hi! Can we get info on this ASAP? Need for the morning. Sorry for the fire drill.

Begin forwarded message:

| From: "Arbes, Sarah (HHS/A<br>Date: April 14, 2020 at 9:30<br>To: "Hallett, Adrienne (NIH/ | 23 PM EDT                     |
|--------------------------------------------------------------------------------------------|-------------------------------|
| <0) (6)<br><0) (6)                                                                         | "Pence, Laura (HHS/ASL)"      |
| Cc: "Morse, Sara (HHS/ASL)'<br>Subject: For AMA in the mo                                  |                               |
| Adrienne and Laura –                                                                       |                               |
| Can you please help me rup                                                                 | ground truth to this article? |

Can you please help me run ground truth to this article?: https://protect2.fireeye.com/url?k=79bfb5e8-25eb9cc3-79bf84d7-0cc47a6d17cc7fe08f9f909251fb&u=https://protect2.fireeye.com/url?k=40f43 e35-1ca13726-40f40f0a-0cc47adb5650c048b52a2b043577&u=https://protect2.fireeye.com/url?k=d80 55c7b-84514507-d8056d44-0cc47adc5fa2-762234a678e2d50f&u=https://www.soundhealthandlastingwea lth.com/health-news/u-s-government-gave-3-7million-grant-towuhan-lab-that-experimented-on-coronavirus-source-bats/

Congressman Gaetz is publicly criticizing HHS/NIH for funding the Wuhan laboratory's bat research. Here's this quote from another article: "I'm disgusted to learn that for years the US government has been funding dangerous and cruel animal experiments at the Wuhan Institute, which may have contributed to the global spread of coronavirus, and research at other labs in China that have virtually no oversight from US authorities."

- How long have we been giving research dollars to this lab?
- How much have we given?
- For what purpose? (b) (5)

- If asked to defend our research dollars going to this lab for this purpose, what do you recommend we say?
   (b) (5)
  - Anything else we should know?

(b) (5)

Thanks much! Sarah

| From:       "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup> To:       "Linde, Emily (NIH/NIAID) [E]" < <sup>(b) (6)</sup> Cc:       "Fenton, Matthew (NIH/NIAID) [E]" < <sup>(b) (6)</sup> "Black, Jodi (NIH/OD) [E]" < <sup>(b) (6)</sup> "Bulls, Michelle G. (NIH/OD) [E]" < <sup>(b) (6)</sup> "Black, Jodi (NIH/OD) [E]" < <sup>(b) (6)</sup> "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup> Subject:       Re: PLEASE READ Re: Please read and acknowledge receipt Actions needed regarding 2R01AI110964-06         Sent:       Mon 4/27/2020 6:14:47 PM (UTC-05:00) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thank you Emily – greatly appreciate your help.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Best, Mike                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| From: "Linde, Emily (NIH/NIAID) [E]" < <sup>(b) (6)</sup><br>Date: Monday, April 27, 2020 at 6:52 PM<br>To: "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup><br>Cc: "Fenton, Matthew (NIH/NIAID) [E]" < <sup>(b) (6)</sup><br>"Bulls, Michelle G. (NIH/OD) [E]"<br>< <sup>(b) (6)</sup><br>Subject: RE: PLEASE READ Re: Please read and acknowledge receipt Actions needed regarding 2R01Al110964-06                                                                                                                                                                           |
| Dr. Lauer,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| This grant has been terminated in accordance with the letter to the grantee on 04/24/2020. The NoA will generate tonight.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| From: Lauer, Michael (NIH/OD) [E] <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Dear Dr. Chmura and Dr. Daszak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Please see attached.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sincerely,<br>Michael S Lauer, MD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Michael S Lauer, MD<br>NIH Deputy Director for Extramural Research<br>1 Center Drive, Building 1, Room 144<br>Bethesda, MD 20892<br>Phone: (b) (6)<br>Email: (b) (6)                                                                                                                                                                                                                                                                                                                                                                                                             |
| From: Aleksei Chmura <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Dear Mike,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

I read that we are in agreement and in compliance with all requests. Please let us know if anything further is required. We will continue in our usual close communication with our Program Officer Erik Stemmy.

Sincerely,

-Aleksei

# Aleksei Chmura Chief of Staff & Authorized Organizational Representative

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

(b) (6) (b) (6) (mobile) www.ecohealthalliance.org

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation.

On Apr 21, 2020, at 19:28, Lauer, Michael (NIH/OD) [E] <<sup>(b) (6)</sup> wrote:

Many thanks Peter for your response.

We note that:

- No monies have gone to WIV on the Type 2 award and no contract has been signed.
- You agree that you will not provide any funds to WIV until and unless directed otherwise by NIH.

• All foreign sites for the Type 1 and Type 2 awards have been documented in the progress reports submitted to NIH.

We appreciate your working with us.

Best, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

| From: Peter Daszak < <sup>(b) (6)</sup>                       |                                     |
|---------------------------------------------------------------|-------------------------------------|
| Date: Tuesday, April 21, 2020 at 7:07 PM                      |                                     |
| <b>To:</b> "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup> |                                     |
| <b>Cc:</b> "Black, Jodi (NIH/OD) [E]" < <sup>(b) (6)</sup>    | Aleksei Chmura < <sup>(b) (6)</sup> |
| "Stemmy, Erik (NIH/NIAID) [E]" < <sup>(b) (6)</sup>           | "Erbelding, Emily (NIH/NIAID) [E]"  |
| < <sup>(b) (6)</sup>                                          |                                     |

Subject: RE: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06

Dear Michael - Confirming receipt of your email. I'm also cc'ing the following people so they're aware of this request:

- 1. Our AOR Dr. Aleksei Chmura, who has access to all our records
- 2. My Program Officer for this award, Dr Erik Stemmy & the Division Director (DMID), Dr Emily Erberding, so they are informed and aware of the request and our response.

That said we need some time to go through the request for information and will provide this as quickly as we can.

However, I can categorically state that no funds form 2R01AI110964-06 have been sent to Wuhan Institute of

Virology, nor has any contract been signed. <u>Furthermore, we will comply with NIAID requirements</u>, of course. Concerning the request for information on all of the sites linked to this award in China, you should be aware that these are documented in our progress reports over the course of the grant. As you can understand we are under enormous pressure to generate data related to the current pandemic, and we do not want to divert staff to this effort. We are hoping the previously filed reports will satisfy this request.

We are well aware of the political concerns over the origins of this outbreak. Our collaboration with Wuhan Institute of Virology has been scientific and we have been consistently impressed with the scientific capabilities of that laboratory and its research staff. Our joint work has led to a series of critical papers published in high impact journals that served to raise awareness of the future threat coronaviruses pose for global health and therefore US national security. Scientific insights with epidemiological significance have been jointly published and our relationship has always been open and transparent and with one concern only, scientific validity. We are concerned that current actions may jeopardize 15 years of fruitful collaboration with colleagues in Wuhan, who are working at the leading edge to design vaccines and drugs that could help us fight this new threat in future years. It is quite remarkable that of the 5 vaccine candidates listed by WHO that are already in human trials, 3 have been developed in China. That said, we of course will do all we can to make sure any further questions from NIH or any Federal agency are addressed to our fullest knowledge.

Yours sincerely,

Peter Daszak President

EcoHealth Alliance 460 West 34<sup>th</sup> Street New York, NY 10001 USA

Tel.: <sup>(b)</sup> (6) Website: <u>www.ecohealthalliance.org</u> Twitter: <u>@PeterDaszak</u>

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

| From: Lauer, Michael (NIH/OD) [E] <(b) (6)  |                                               |                         |
|---------------------------------------------|-----------------------------------------------|-------------------------|
| Sent: Monday, April 20, 2020 4:31 PM        |                                               |                         |
| To: Kevin Olival < <sup>(b) (6)</sup>       | Peter Daszak < <sup>(b) (6)</sup>             |                         |
| Cc: Naomi Schrag < <sup>(b) (6)</sup>       | Black, Jodi (NIH/OD) [E] < <sup>(b) (6)</sup> | Lauer, Michael (NIH/OD) |
| [E] < <sup>(b) (6)</sup>                    |                                               |                         |
| Subject: Re: Please read and acknowledge re | eceipt Actions needed regarding 2R01Al11      | .0964-06                |

Thank you Kevin

Importance: High

• We need to work with a senior responsible business official – usually PI's and senior business officials are different people.

• When I looked you up on the web, I see the Columbia logo (see attached screenshot). Specifically, it appears to be Columbia University > Ecology, Evolution, and Environmental Biology > EcoHealth Alliance (labeled as an "Affiliation/Department"). Thus the web profile makes it look to me as if EcoHealth Alliance is linked to Columbia University.

• In any case, I'm looping in Dr. Daszak.

• We need to know all sites in China that have been in any way linked to this award (Type 1 and Type 2). We have data in NIH, but we want to make absolutely sure that we're of the same understanding.

We greatly appreciate your prompt attention to this matter.

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

| From: Kevin Olival < <sup>(b) (6)</sup>                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date: Monday, April 20, 2020 at 4:14 PM                                                                                                                                                                                                                                                                                |
| To: "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                                                                                                                                                                                                 |
| Cc: Naomi Schrag < <sup>(b) (6)</sup> "Black, Jodi (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                                                                                                                                                                  |
| Subject: Re: Please read and acknowledge receipt Actions needed regarding 2R01AI110964-06                                                                                                                                                                                                                              |
| Dear Mike,                                                                                                                                                                                                                                                                                                             |
| I received the attached letter, however please note:                                                                                                                                                                                                                                                                   |
| <ol> <li>I am not the PI on this award. You should contact Dr. Peter Daszak (<sup>(b) (6)</sup> who is the PI and leading this project for EcoHealth Alliance.</li> <li>Columbia University is not involved in this NIH project, and it is not clear to me why Naomi and Columbia University were included.</li> </ol> |
| Thank you,<br>Kevin                                                                                                                                                                                                                                                                                                    |
| Kevin J. Olival, PhD<br>Vice President for Research                                                                                                                                                                                                                                                                    |
| EcoHealth Alliance<br>460 West 34th Street, Suite 1701<br>New York, NY 10001                                                                                                                                                                                                                                           |
| (direct)<br>(mobile)<br>1.212.380.4465 (fax)<br>www.ecohealthalliance.org<br>EcoHealth Alliance develops science-based solutions to prevent pandemics <i>and</i> promote conservation                                                                                                                                  |
| On Apr 20, 2020, at 2:16 PM, Lauer, Michael (NIH/OD) [E] < <sup>(b) (6)</sup> wrote:                                                                                                                                                                                                                                   |
| Many thanks Naomi – it would be helpful for us to know about <mark>all</mark> China-based participants in this work since the Type 1 grant started in 2014 – who they were and how much money they received. The sooner you can get us that information, the better.                                                   |
| Best, Mike                                                                                                                                                                                                                                                                                                             |
| From: Naomi Schrag < <sup>(b) (6)</sup><br>Date: Sunday, April 19, 2020 at 11:59 AM<br>To: "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup><br>< <sup>(b) (6)</sup><br>Naomi Schrag < <sup>(b) (6)</sup>                                                                                                             |

Cc: "Black, Jodi (NIH/OD) [E]" < Content of the second sec

Dear Dr. Lauer, I am acknowledging receipt of this letter and will get back to you as soon as I can. Sincerely, Naomi Schrag

| From: Lauer, Michael (NIH/OD) [                  | E] < <sup>(b) (6)</sup>           |  |
|--------------------------------------------------|-----------------------------------|--|
| Sent: Sunday, April 19, 2020 11:0                | 00 AM                             |  |
| To: <sup>(b) (6)</sup>                           | Naomi Schrag < <sup>(b) (6)</sup> |  |
| Cc: Black, Jodi (NIH/OD) [E] < <sup>(b) (6</sup> |                                   |  |

Subject: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06 Importance: High

Dear Dr. Olival and Ms. Schrag

Please see attached.

Many thanks, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

<EcoHealth Alliance re Al grant 4 19 20.pdf>

<EcoHealth Alliance re Al grant 4 19 20[2].pdf><NoA R01Al110964-06.pdf><NoA R01Al110964-01.pdf>

Dear Dr. Lauer, I am acknowledging receipt of this letter and will get back to you as soon as I can. Sincerely, Naomi Schrag

 From: Lauer, Michael (NIH/OD) [E] <</td>
 (b) (6)

 Sent: Sunday, April 19, 2020 11:00 AM

 To:
 (b) (6)

 Naomi Schrag <</td>
 (b) (6)

 Cc: Black, Jodi (NIH/OD) [E] <</td>
 (b) (6)

Subject: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06 Importance: High

Dear Dr. Olival and Ms. Schrag

Please see attached.

Many thanks, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: 301-496-1096 Email: (b) (6)

<EcoHealth Alliance re Al grant 4 19 20.pdf>

<EcoHealth Alliance re Al grant 4 19 20[2].pdf><NoA R01Al110964-06.pdf><NoA R01Al110964-01.pdf>

| To:       Tabak, Lawrence (NIH/OD) [E] (b) (6)         Cc:       Schwetz, Tara (NIH/OD) [E] (b) (6)         (NIH/OD) [E] (b) (6)       Wolinetz, Carrie (NIH/OD) [E] (b) (6)         From:       Lauer, Michael (NIH/OD) [E] (b) (6)         Sent:       Wed 4/15/2020 6:03:46 AM (UTC-05:00)         Subject:       Re: Wuhan lab research         FACTS Snapshot for 2-R01-Al110964-06 DASZAK, PETER QVR.pdf         NoA R01Al110964-06.pdf         NoA R01Al110964-01.pdf         Good morning – see Section IV of the NoAs:         • Type 1: Wuhan gets 134K to 159K per year. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • Type 2: Wuhan gets \$76,301.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Thanks, Mike                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| From: "Tabak, Lawrence (NIH/OD) [E]" <(b) (6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Date: Tuesday, April 14, 2020 at 10:05 PM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| To: "Lauer, Michael (NIH/OD) [E]" < <sup>(6) (6)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cc: "Schwetz, Tara (NIH/OD) [E]" < <sup>(b) (6)</sup> "Wolinetz, Carrie (NIH/OD) [E]" < <sup>(b) (6)</sup><br>Subject: Re: Wuhan lab research                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| https://projectreporter.nih.gov/project_info_description.cfm?aid=9819304&icde=49593891&ddparam=&ddvalue=&ddsub=&cr=1                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| &csb=default&cs=ASC&pball=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| can we get subproject info – costs to Wuhan?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| From: "Tabak, Lawrence (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Date: Tuesday, April 14, 2020 at 10:00 PM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| To: "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cc: "Schwetz, Tara (NIH/OD) [E]" < <sup>(b) (6)</sup> "Wolinetz, Carrie (NIH/OD) [E]" < <sup>(b) (6)</sup><br>Subject: Re: Wuhan lab research                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Subject: Re: Wuhan lab research                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Is this what they are referring to: <u>https://worldreport.nih.gov/app/#!/</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| From: "Tabak, Lawrence (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Date: Tuesday, April 14, 2020 at 9:50 PM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| To: "Lauer, Michael (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cc: "Schwetz, Tara (NIH/OD) [E]" < <sup>(b) (6)</sup> "Wolinetz, Carrie (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Subject: FW: Wuhan lab research                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Can I get this information asap please?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| From: "Pence, Laura (HHS/ASL)" < <sup>(b) (6)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Date: Tuesday, April 14, 2020 at 9:47 PM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| To: "Tabak, Lawrence (NIH/OD) [E]" < (b) (6) "Wolinetz, Carrie (NIH/OD) [E]"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| < <sup>(b) (6)</sup> "Schwetz, Tara (NIH/OD) [E]" < <sup>(b) (6)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Subject: Wuhan lab research                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hi! Can we get info on this ASAP? Need for the morning. Sorry for the fire drill.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

Begin forwarded message:

From: "Arbes, Sarah (HHS/ASL)" <(b) (6)

Date: April 14, 2020 at 9:30:23 PM EDT To: "Hallett, Adrienne (NIH/OD) [E]" <<sup>(b) (6)</sup> Cc: "Morse, Sara (HHS/ASL)" <<sup>(b) (6)</sup> Subject: For AMA in the morning

"Pence, Laura (HHS/ASL)" <<sup>(b) (6)</sup>

Adrienne and Laura –

Can you please help me run ground truth to this article?: <u>https://www.soundhealthandlastingwealth.com/health-news/u-s-government-gave-3-7million-grant-to-wuhan-lab-that-experimented-on-coronavirus-source-bats/</u>

Congressman Gaetz is publicly criticizing HHS/NIH for funding the Wuhan laboratory's bat research. Here's this quote from another article: "I'm disgusted to learn that for years the US government has been funding dangerous and cruel animal experiments at the Wuhan Institute, which may have contributed to the global spread of coronavirus, and research at other labs in China that have virtually no oversight from US authorities."

- How long have we been giving research dollars to this lab?
- How much have we given?
- For what purpose?
- If asked to defend our research dollars going to this lab for this purpose, what do you recommend we say?
- Anything else we should know?

Thanks much! Sarah

# QVR FACTS

FACTS Data Snapshot for: 2-R01-Al110964-06 (DASZAK, PETER) Understanding the Risk of Bat Coronavirus Emergence

Launch the FACTS System FACTS

Hop to Country Project Information CHINA SINGAPORE

| 2-R01-Al110964-06 (as reflected under competing project number 2-R01-Al110964-06 in FACTS) |
|--------------------------------------------------------------------------------------------|
| DASZAK, PETER                                                                              |
| ECOHEALTH ALLIANCE, INC.                                                                   |
| Understanding the Risk of Bat Coronavirus Emergence                                        |
| 2019 (Project Period from 2014-06-01 to 2024-06-30)                                        |
| Awarded (05)                                                                               |
| Domestic Application with Foreign Collaboration (2)                                        |
|                                                                                            |

#### CHINA State Department Clearance Request (SDCR ID 219890) NIAID Contact SDCR ACTIONS ACTION DATES Bernabe, Gayle Approved 2019-05-30 Click the - to hide the Research Objective listed on State Department Clearance. Phone: (b) (6) Approve Submit to State Department 2019-05-30 2019-05-29 This work is an extension and renewal of a previous award, approved under c earances 202191 and 211200. Send to Agency The aims of this research project are to examine the mechanism through which coronaviruses (CoVs) jump 2019-05-28 from animal hosts/reservoirs to humans (spillover events). To accomplish this work the PI and his team will IC Update 2019-05-24 conduct detai ed surveillance for coronaviruses in four provinces: Yuman Guizhou, Guangxi, and Guangdong. 2019-05-10 IC Save The exact sites have not yet been identified; as in the previous award, sites will be se ected from the four provinces as work progresses. Surveil ance will include sampling of wild bat populations. Samples will be collected from animals from each of these sites, and will be analyzed to determine what coronaviruses are present, and whether the viruses are able to infect humans. The investigators p an to collect samples from bats, approximately 5,000 samp es total from 15-20 species across all four provinces. Animals will be captured and lightly anesthetized if necessary. They will be swabbed (mouth/nose, urogenital tract, and rectum), and a small amount of blood will be col ected. If availab e, feces and urine will also be col ected. Nearly all wild bats will be released unharmed after sampling. A small number of bats (maximum of 2 per species) may be euthanized in order to collect ung and intestinal tissue required for characterizing viral receptors. In order to understand whether select strains of bat-borne CoVs utilize receptors found in bats have the potential to infect people, the investigators will use mice that have been genetically modified to express the human receptor for SARS-CoV. The investigators anticipate identifying 5-6 SARS-related-CoVs that will be tested in mice, using approximately 15-20 mice per virus strain. A maximum of 120 mice will be used for this work over the project. All work involving samples and viral isolates from bats will be performed at the Wuhan Institute of Virology. All animal work will be performed by trained individuals in accordance with the American Veterinary Medical Association guidelines, and the project is overseen by veterinarians. This work has also been reviewed and approved by the investigator's Institutional Animal Care and Use Committee. This project will also study human exposure to animal coronaviruses across the same four provinces in southern China. Samples will be collected from each of these sites from individuals who 1) who are highly exposed to bats in community settings, including through hunting, butchering, or general handling within the context of their living or working environment (18+ years old); and 2) patients admitted to hospitals and clinics presenting with disease symptoms of clinically-defined severe/acute respiratory illness (SARI/ARI) or Influenza-like illness (ILI) of unknown origin (12+ years old). Subjects will be enrolled on a vo untary basis and informed consent will be obtained from all participants. Consenting participants will provide biological samples and complete a questionnaire at the time of acute illness and 35 days after resolution of illness. There will be no follow-up among community participants after initial sample collection. The study population will be selected from the Yunnan, Guangxi, Guangdong, and Guizhou provinces of China. They plan to enroll: 1) in 12 clinic sites across the four provinces, 2,750 individuals (accounting for an estimated 40% loss from follow-up); and 2) in 8 community sites, 1,650 individuals per each of the four provinces, poo ed across two sites for each province for a total of 6,660 participants. Enrollment is anticipated to be 100% Asian, with a 50/50 split between males and fema es. All human subject work will be managed by the team at the Institute for Pathogen Biology. Site Flags Budget Period Verified By Verified Date Collaborator/Site (Site ID: 262256) Budget Amt ZHU, GUANGJIAN Animals: Y EAST CHINA NORMAL UNIVERSITY FWA: School of Life Science, B327 Humans: N Science building, 3663 Zhongshan Beilu Shanghai 200062

| Collaborator/Site (Site ID: 262253)<br>GUO, LI<br>INSTITUTE OF PATHOGEN BIOLOGY<br>Dong Dan San Tiao, No. 9<br>Dongcheng District<br>Beijing 100730 | Site Flags<br>Animals: N<br>FWA: Y<br>Humans: Y | Budget Period | Budget Amt | Verified By | Verified Date |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------|------------|-------------|---------------|
| Collaborator/Site (Site ID: 262252)                                                                                                                 | Site Flags                                      | Budget Period | Budget Amt | Verified By | Verified Date |
| REN, L LI<br>INSTITUTE OF PATHOGEN BIOLOGY<br>Dong Dan San Tiao, No. 9<br>Dongcheng District                                                        | Animals: N<br>FWA: Y<br>Humans: Y               |               |            |             |               |

https://apps.era.nih.gov/qvr/web/dd\_facts\_snap.cfm?applid=9819304&sourceCode=CURRENT#

Beijing 100730

PRINT CLOSE Appl Id: 981930

| Collaborator/Site (Site ID: 262251)<br>HU, BEN<br>WUHAN INSTITUTE OF VIROLOGY<br>Xiao Hong Shan, No. 44<br>Wuchang District<br>Wuhan 430071       | Site Flags<br>Animals: Y<br>FWA:<br>Humans: N | Budget Period                              | Budget Amt | Verified By                                     | Verified Date                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------------------------|
| Collaborator/Site (Site ID: 261948)<br>SHI, ZHENG LI<br>WUHAN INSTITUTE OF VIROLOGY<br>Xiao Hong SHan, No. 44<br>Wuchang District<br>Wuhan 430071 | Site Flags<br>Animals: Y<br>FWA:<br>Humans: N | Budget Period                              | Budget Amt | Verified By                                     | Verified Date                                                      |
| Collaborator/Site (Site ID: 262250)<br>ZHOU, PENG<br>WUHAN INSTITUTE OF VIROLOGY<br>Xiao Hong SHan, No. 44<br>Wuchang District<br>Wuhan 430071    | Site Flags<br>Animals: Y<br>FWA:<br>Humans: N | Budget Period                              | Budget Amt | Verified By                                     | Verified Date                                                      |
| SINGAPORE                                                                                                                                         |                                               |                                            |            |                                                 |                                                                    |
| State Department Clearance Request (SDCR ID 219753)                                                                                               |                                               | NIAID Contact                              | SDCR       | ACTIONS                                         | ACTION DATES                                                       |
| C ick the + to show the Research Objective listed on State Department Clearance                                                                   |                                               | <u>Bernabe, Gayle</u><br>Phone: 301-451-10 | Send       | Approval<br>to Agency<br>it to State Department | 2019-05-20<br>2019-05-20<br>2019-05-06<br>2019-05-06<br>2019-05-01 |
| Collaborator/Site (Site ID: 262258)<br>WANG, LINFA<br>DUKE-NUS MEDICAL SCHOOL                                                                     | Site Flags<br>Animals: N<br>FWA:              | Budget Period                              | Budget Amt | Verified By                                     | Verified Date                                                      |
| 8 College Road<br>Singapore 169857                                                                                                                | Humans: N                                     |                                            |            |                                                 |                                                                    |



RESEARCH Department of Health and Human Services National Institutes of Health

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Grant Number: 2R01AI110964-06 REVISED FAIN: R01AI110964

Principal Investigator(s):

PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Dr. Daszak, Peter PD/PI 460 West 34th Street Suite 1701 New York, NY 100012320

Award e-mailed to: (b) (6)

# Period Of Performance: Budget Period: 07/24/2019 - 06/30/2020 Project Period: 06/01/2014 - 06/30/2024

Dear Business Official:

The National Institutes of Health hereby revises this award to reflect a decrease in the amount of \$71,770 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01AI110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website

<u>http://grants.nih.gov/grants/policy/coi/</u> for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV

Sincerely your,

Tseday G Girma Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

| SECTION I – AWARD DATA – 2R01AI110964-06 REVISED        |             |
|---------------------------------------------------------|-------------|
| Award Calculation (U.S. Dollars)                        |             |
| Salaries and Wages                                      | \$170,123   |
| Fringe Benefits                                         | \$53,590    |
| Personnel Costs (Subtotal)                              | \$223,713   |
| Consultant Services                                     | \$49,750    |
| Materials & Supplies                                    | \$20,850    |
| Travel                                                  | \$15,027    |
| Subawards/Consortium/Contractual Costs                  | \$229,651   |
| Federal Direct Costs                                    | \$538,991   |
| Federal F&A Costs                                       | \$122,989   |
| Approved Budget                                         | \$661,980   |
| Total Amount of Federal Funds Obligated (Federal Share) | \$661,980   |
| TOTAL FEDERAL AWARD AMOUNT                              | \$661,980   |
| AMOUNT OF THIS ACTION (FEDERAL SHARE)                   | (\$-71,770) |

| SUMMARY TOTALS FOR ALL YEARS |            |                   |  |  |
|------------------------------|------------|-------------------|--|--|
| YR                           | THIS AWARD | CUMULATIVE TOTALS |  |  |
| 6                            | \$661,980  | \$661,980         |  |  |
| 7                            | \$637,980  | \$637,980         |  |  |
| 8                            | \$637,980  | \$637,980         |  |  |
| 9                            | \$637,980  | \$637,980         |  |  |
| 10                           | \$637,980  | \$637,980         |  |  |

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

## **Fiscal Information:**

| CFDA Name:        | Allergy and Infectious Diseases Research |
|-------------------|------------------------------------------|
| CFDA Number:      | 93.855                                   |
| EIN:              | 1311726494A1                             |
| Document Number:  | RAI110964B                               |
| PMS Account Type: | P (Subaccount)                           |
| Fiscal Year:      | 2019                                     |

| IC | CAN     | 2019      | 2020      | 2021      | 2022      | 2023      |
|----|---------|-----------|-----------|-----------|-----------|-----------|
| AI | 8472364 | \$661,980 | \$637,980 | \$637,980 | \$637,980 | \$637,980 |

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

#### NIH Administrative Data:

PCC: M51C B / OC: 414B / Released: <sup>(b) (6)</sup> 08/02/2019 Award Processed: 08/05/2019 12:01:51 AM

# SECTION II - PAYMENT/HOTLINE INFORMATION - 2R01AI110964-06 REVISED

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant\_nih.gov/grant\_/policy/awardcondition\_htm</u>

# SECTION III - TERMS AND CONDITIONS - 2R01AI110964-06 REVISED

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

- a. The grant program legislation and program regulation cited in this Notice of Award.
- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.

- c. 45 CFR Part 75.
- d. National Policy Requirements and all other requirements described in the NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. Federal Award Performance Goals: As required by the periodic report in the RPPR or in the final progress report when applicable.
- f. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at http://grants.nih.gov/grants/policy/awardconditions.htm for certain references cited above.)

**Research and Development (R&D):** All awards issued by the National Institutes of Health (NIH) meet the definition of "Research and Development" at 45 CFR Part§ 75.2. As such, auditees should identify NIH awards as part of the R&D cluster on the Schedule of Expenditures of Federal Awards (SEFA). The auditor should test NIH awards for compliance as instructed in Part V, Clusters of Programs. NIH recognizes that some awards may have another classification for purposes of indirect costs. The auditor is not required to report the disconnect (i.e., the award is classified as R&D for Federal Audit Requirement purposes but non-research for indirect cost rate purposes), unless the auditee is charging indirect costs at a rate other than the rate(s) specified in the award document(s).

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the System for Award Management (SAM). Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing thi requirement and other additional information

Thi award ha been a igned the Federal Award Identification Number (FAIN) R01AI110964 Recipients must document the assigned FAIN on each consortium/subaward issued under this award

Ba ed on the project period tart date of thi project, thi award i likely ubject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170 There are condition that may e clude thi award; ee <a href="http://grants.nih.gov/grants/policy/awardconditions.htm">http://grants.nih.gov/grants/policy/awardconditions.htm</a> for additional award applicability information

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: <u>http://publicacce\_\_\_\_\_nih.gov/</u>

In accordance with the regulatory requirements provided at 45 CFR 75.113 and Appendix XII to 45 CFR Part 75, recipient that have currently active Federal grant , cooperative agreement , and procurement contracts with cumulative total value greater than \$10,000,000 must report and maintain information in the Sy tem for Award Management (SAM) about civil, criminal, and administrative proceedings in connection with the award or performance of a Federal award that reached final di po ition within the mo t recent five year period The recipient mu t al o make semiannual disclosures regarding such proceedings. Proceedings information will be made publicly available in the de ignated integrity and performance y tem (currently the Federal Awardee Performance and Integrity Information System (FAPIIS)). Full reporting requirements and procedure are found in Appendi II to 45 CFR Part 75 Thi term doe not apply to NIH fellowships.

# SECTION IV – AI Special Terms and Conditions – 2R01AI110964-06 REVISED

Clinical Trial Indicator: No

This award does not support any NIH-defined Clinical Trials. See the NIH Grants Policy Statement Section 1.2 for NIH definition of Clinical Trial.

REVISED AWARD: This award is revised to adjust the budget in accordance with the letter from Aleksei Chmura/ECOHealth Alliance.

Supersedes previous Notice of Award dated 07/24/2019.

#### \*\*\*\*\*

This Notice of Award (NoA) includes funds for activity with **The University of North Carolina at Chapel Hill** in the amount of **\$77,750** (**\$50,000** direct costs + **\$27,750**F&A costs).

This Notice of Award (NoA) includes funds for activity with **Wuhan Institute of Virology** in the amount of **\$76,301** (**\$70,649** direct costs + **\$5,652** F&A costs).

This Notice of Award (NoA) includes funds for activity with **Institute of Pathogen Biology** in the amount of **\$75,600** (**\$70,000** direct costs + **\$5,600** F&A costs).

#### \*\*\*\*\*

The Research Performance Progress Report (RPPR), Section G.9 (Foreign component), includes reporting requirements for all research performed outside of the United States. Research conducted at the following site(s) must be reported in your RPPR:

Wuhan Institute of Virology, CHINA Institute of Pathogen Biology, CHINA East China Normal University, CHINA Duke-NUS Medical School, SINGAPORE

#### \*\*\*\*\*

This award reflects current Federal policies regarding Facilities & Administrative (F&A) Costs for foreign grantees including foreign sub-awardees, and domestic awards with foreign sub-awardees. Please see: Chapter 16 Grants to Foreign Organizations, International Organizations, and Domestic Grants with Foreign Components, <u>Section 16.6 "Allowable and Unallowable Cost"</u> of the NIH Grants Policy.

#### \*\*\*\*\*

This award may include collaborations with and/or between foreign organizations. Please be advised that short term travel visa expenses are an allowable expense on this grant, if justified as critical and necessary for the conduct of the project.

#### \*\*\*\*\*

The budget period anniversary start date for future year(s) will be **July** 1.

#### \*\*\*\*\*

Dissemination of study data will be in accord with the Recipient's accepted genomic data sharing plan as stated in the page(s) **203** of the application. Failure to adhere to the sharing plan as mutually agreed upon by the Recipient and the NIAID may result in Enforcement Actions as described in the NIH Grants Policy Statement.

#### \*\*\*\*\*

This award is subject to the Clinical Terms of Award referenced in the NIH Guide for Grants and Contracts, July 8, 2002, NOT AI-02-032. These terms and conditions are hereby incorporated by

Page-5

reference, and can be accessed via the following World Wide Web address: <u>https://www.niaid.nih.gov/grants-contracts/niaid-clinical-terms-award</u> All submissions required by the NIAID Clinical Terms of Award must be forwarded electronically or by mail to the responsible NIAID Program Official identified on this Notice of Award.

#### \*\*\*\*\*

Awardees who conduct research involving Select Agents (see 42 CFR 73 for the Select Agent list; and 7 CFR 331 and 9 CFR 121 for the relevant animal and plant pathogens at <a href="http://www.selectagents.gov/Regulations.html">http://www.selectagents.gov/Regulations.html</a>) must complete registration with CDC (or APHIS, depending on the agent) before using NIH funds. No funds can be used for research involving Select Agents if the final registration certificate is denied.

Prior to conducting a restricted experiment with a Select Agent or Toxin, awardees must notify the NIAID and must request and receive approval from CDC or APHIS.

#### \*\*\*\*\*

#### Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well as changes in on-going experiments that would require change in the biosafety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be assumed an approval to other individuals who conduct the same restricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www.selectagents.gov/Regulations.html).

#### Highly Pathogenic Agent:

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment safety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/ohs/biosfty/bmbl5/bmbl5/bmbl5toc.htm</u>). Research funded under this grant mu t adhere to the BMBL, including u ing the BMBL recommended biocontainment level at a minimum. If your Institutional Biosafety Committee (or equivalent body) or designated in titutional bio afety official recommend a higher biocontainment level, the highe t recommended containment level must be used.

When ubmitting future Progre Report indicate at the beginning of the report

If no re earch with a Highly Pathogenic Agent or Select Agent ha been performed or i planned to be performed under this grant.

If your IBC or equivalent body or official has determined, for example, by conducting a risk a e ment, that the work being planned or performed under thi grant may be conducted at a biocontainment safety level that is lower than BSL3.

If the work involves Select Agents and/or Highly Pathogenic Agents, also address the following point

Any change in the u e of the Agent() or To in() including it re tricted experiments that have resulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, a determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide

A li t of the new and/or additional Agent() that will be tudied;
A description of the work that will be done with the Agent(s), and whether or not the work i a re tricted e periment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operate the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official It is important to note if the work is being done in a new location.

#### **STAFF CONTACTS**

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

Grants Management Specialist: Tseday G GirmaEmail: (b) (6)Phone: (b) (6)

**Fax**: 301-493-0597

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

SPREADSHEET SUMMARY GRANT NUMBER: 2R01AI110964-06 REVISED

**INSTITUTION:** ECOHEALTH ALLIANCE, INC.

| Budget                           | Year 6    | Year 7    | Year 8    | Year 9    | Year 10   |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| Salaries and Wages               | \$170,123 | \$170,123 | \$170,123 | \$170,123 | \$170,123 |
| Fringe Benefits                  | \$53,590  | \$53,590  | \$53,590  | \$53,590  | \$53,590  |
| Personnel Costs (Subtotal)       | \$223,713 | \$223,713 | \$223,713 | \$223,713 | \$223,713 |
| Consultant Services              | \$49,750  | \$49,750  | \$49,750  | \$49,750  | \$49,750  |
| Materials & Supplies             | \$20,850  | \$14,850  | \$14,850  | \$14,850  | \$14,850  |
| Travel                           | \$15,027  | \$15,027  | \$15,027  | \$15,027  | \$15,027  |
| Subawards/Consortium/Contractual | \$229,651 | \$229,651 | \$229,651 | \$229,651 | \$229,651 |
| Co t                             |           |           |           |           |           |
| Publication Co t                 |           | \$6,000   | \$6,000   | \$6,000   | \$6,000   |
| TOTAL FEDERAL DC                 | \$538,991 | \$538,991 | \$538,991 | \$538,991 | \$538,991 |
| TOTAL FEDERAL F&A                | \$122,989 | \$98,989  | \$98,989  | \$98,989  | \$98,989  |
| TOTAL COST                       | \$661,980 | \$637,980 | \$637,980 | \$637,980 | \$637,980 |

| Facilitie and Admini trative Co t | Year 6    | Year 7    | Year 8    | Year 9    | Year 10   |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
| F&A Co t Rate 1                   | 32%       | 32%       | 32%       | 32%       | 32%       |
| F&A Co t Ba e 1                   | \$384,340 | \$309,340 | \$309,340 | \$309,340 | \$309,340 |
| F&A Cot 1                         | \$122,989 | \$98,989  | \$98,989  | \$98,989  | \$98,989  |





Grant Number:1R01Al110964-01FAIN:R01Al110964

Principal Investigator(s): PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Aleksei President 460 West 34th Street 17th Floor New York, NY 100012317

Award e-mailed to: (b) (6)

**Budget Period:** 06/01/2014 - 05/31/2015 **Project Period:** 06/01/2014 - 05/31/2019

Dear Business Official:

The National Institutes of Health hereby awards a grant in the amount of \$666,442 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01Al110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website <a href="http://grants.nih.gov/grants/policy/coi/">http://grants.nih.gov/grants/policy/coi/</a> for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV.

Sincerely yours,

#### Laura A. Pone Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

#### SECTION I – AWARD DATA – 1R01AI110964-01

| \$167,708          |
|--------------------|
| \$54,168           |
| \$21,400           |
| \$35,918           |
| \$10,000           |
| \$227,663          |
|                    |
| \$516,857          |
| \$149,585          |
| \$666,442          |
| \$666,442          |
| \$666,442          |
| ••••• <i>· ·</i> • |
|                    |

#### AMOUNT OF THIS ACTION (FEDERAL SHARE)

\$666,442

| SUMMARY TOTALS FOR ALL YEARS |            |                   |  |  |  |  |  |
|------------------------------|------------|-------------------|--|--|--|--|--|
| YR                           | THIS AWARD | CUMULATIVE TOTALS |  |  |  |  |  |
| 1                            | \$666,442  | \$666,442         |  |  |  |  |  |
| 2                            | \$630,445  | \$630,445         |  |  |  |  |  |
| 3                            | \$611,090  | \$611,090         |  |  |  |  |  |
| 4                            | \$597,112  | \$597,112         |  |  |  |  |  |
| 5                            | \$581,646  | \$581,646         |  |  |  |  |  |

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

#### **Fiscal Information:**

| CFDA Number:     | 93.855       |
|------------------|--------------|
| EIN:             | 1311726494A1 |
| Document Number: | RAI110964A   |

| PMS Account Type: | P (Subaccount) |
|-------------------|----------------|
| Fiscal Year:      | 2014           |

| IC | CAN     | 2014      | 2015      | 2016      | 2017      | 2018      |
|----|---------|-----------|-----------|-----------|-----------|-----------|
| AI | 8472350 | \$666,442 | \$630,445 | \$611,090 | \$597,112 | \$581,646 |

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

#### NIH Administrative Data:

PCC: M51C / OC: 414A / Released: <sup>(b) (6)</sup> 05/20/2014 Award Processed: 05/08/2014 01:52:21 PM

### SECTION II - PAYMENT/HOTLINE INFORMATION - 1R01AI110964-01

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant\_nih.gov/grant\_/policy/awardcondition\_htm</u>

#### SECTION III - TERMS AND CONDITIONS - 1R01AI110964-01

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

a. The grant program legislation and program regulation cited in this Notice of Award.

- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.
- c. 45 CFR Part 74 or 45 CFR Part 92 as applicable.
- d. The NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at <u>http://grants.nih.gov/grants/policy/awardconditions.htm</u> for certain references cited above.)

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the Central Contractor Registration. Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing this requirement and other additional information.

This award has been assigned the Federal Award Identification Number (FAIN) R01AI110964. Recipients must document the assigned FAIN on each consortium/subaward issued under this award.

Based on the project period start date of this project, this award is likely subject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170. There are conditions that may exclude this award; see <a href="http://grants.nih.gov/grants/policy/awardconditions.htm">http://grants.nih.gov/grants/policy/awardconditions.htm</a> for additional award applicability information.

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: http://publicacce\_\_\_\_nih.gov/

**Treatment of Program Income:** Additional Co t

SECTION IV – AI Special Terms and Conditions – 1R01AI110964-01

THIS AWARD CONTAINS GRANT SPECIFIC RESTRICTIONS. THESE RESTRICTIONS MAY ONLY BE LIFTED BY A REVISED NOTICE OF AWARD.

RESTRICTION: This award is issued with the knowledge that subjects may be involved within the period of support, but definite plans were not set forth in the application as per 45 CFR 46.118. No human subjects may be involved in any project supported by this award until all requirements for Human Subjects research as identified in the PHS398/SF424 Instructions have been provided to and approved by NIH.

RESTRICTION: The present award is being made without a currently valid certification of IRB approval for this project with the following restriction: Only activities that are clearly severable and independent from activities that involve human subjects may be conducted pending the NIAID's acceptance of the certification of IRB review and approval.

No funds may be drawn down from the payment system and no obligations may be made against Federal funds for any research involving human subjects prior to the NIAID's notification to the grantee that the identified issues have been resolved and this restriction removed.

Page-4

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This award includes funds for subcontract/consortium activity with <u>Wuhan Institute of Virology</u>, <u>CHINA</u> and is budgeted as follows:

-Yr ′	1 -Y	r 2	-Yr 3	-Yr 4	-Yr 5
Total Direct Costs	\$123,699	\$128,718	\$147,335	\$147,335	\$147,335
F&A Costs @ 8%(MTDC)	\$9,896	\$10,297	\$11,787	\$11,787	\$11,787
TOTAL COSTS	\$133,595	\$139,015	\$159,122	\$159,122	\$159,122

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

This award includes funds for subcontract/consortium activity with <u>East China Normal University</u>, CHINA and is budgeted as follows:

-Yr	1	-Yr 2	-Yr 3	-Yr 4	-Yr 5
Total Direct Costs	\$87,100	\$67,300	\$50,108	\$39,167	\$14,850
F&A Costs @ 8%(MTDC)	\$6,968	\$5,384	\$4,009	\$3,133	\$2,404
TOTAL COSTS	\$94,068	\$72,684	\$54,117	\$42,300	\$32,454

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well a change in on going e periment that would require change in the bio afety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be a umed an approval to other individual who conduct the ame re tricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www_electagent_gov/Regulation_html)

Highly Pathogenic Agent

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment afety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/oh/bio_fty/bmbl5/bmbl5/bmbl5toc.htm</u>) Re earch funded under thi grant must adhere to the BMBL, including using the BMBL-recommended biocontainment level at a minimum If your In titutional Bio afety Committee (or equivalent body) or de ignated institutional biosafety official recommend a higher biocontainment level, the highest recommended containment level mu t be u ed

When submitting future Progress Reports indicate at the beginning of the report:

If no research with a Highly Pathogenic Agent or Select Agent has been performed or is planned to be performed under thi grant

If your IBC or equivalent body or official ha determined, for e ample, by conducting a ri k assessment, that the work being planned or performed under this grant may be conducted at a biocontainment afety level that i lower than BSL3

If the work involve Select Agent and/or Highly Pathogenic Agent, al o addre the following points:

Any changes in the use of the Agent(s) or Toxin(s) including its restricted experiments that have re ulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, as determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide:

o A list of the new and/or additional Agent(s) that will be studied;

o A description of the work that will be done with the Agent(s), and whether or not the work is a restricted experiment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operates the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official. It is important to note if the work is being done in a new location.

STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

Grants Management Special	l ist : Laura A. Pone	
Email : ^{(b) (6)}	Phone: (b) (6)	Fax: 301-493-0597

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

SPREADSHEET SUMMARY GRANT NUMBER: 1R01AI110964-01

INSTITUTION: ECOHEALTH ALLIANCE, INC.

Budget	Year 1	Year 2	Year 3	Year 4	Year 5
Salarie and Wage	\$167,708	\$167,708	\$167,708	\$167,708	\$167,708
Fringe Benefit	\$54,168	\$54,168	\$54,168	\$54,168	\$54,168
Supplie	\$21,400	\$19,250	\$7,250	\$7,000	\$3,500
Travel Co t	\$35,918	\$35,918	\$35,918	\$35,918	\$35,918
Other Co t	\$10,000	\$13,550	\$11,050	\$9,800	\$9,400
Con ortium/Contractual Co t	\$227,663	\$211,699	\$213,239	\$201,422	\$191,576
TOTAL FEDERAL DC	\$516,857	\$502,293	\$489,333	\$476,016	\$462,270
TOTAL FEDERAL F&A	\$149,585	\$128,152	\$121,757	\$121,096	\$119,376
TOTAL COST	\$666,442	\$630,445	\$611,090	\$597,112	\$581,646

Facilities and Administrative	Year 1	Year 2	Year 3	Year 4	Year 5
Co t					
F&A Co t Rate 1	44 1%	44 1%	44 1%	44 1%	44 1%
F&A Cot Bae 1	\$339,194	\$290,594	\$276,094	\$274,594	\$270,694
F&A Cot 1	\$149,585	\$128,152	\$121,757	\$121,096	\$119,376

Sent:	Mon 4/20/2020 9:49:31 AM (UTC-05:00)
Subject:	Urgent request re Wuhan lab research
From:	"Lauer, Michael (NIH/OD) [E]" <(b) (6)
To:	"Tabak, Lawrence (NIH/OD) [E]" <(b) (6)
Cc:	"Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)} "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}
FACTS S	napshot for 2-R01-AI110964-06 DASZAK, PETER QVR.pdf
NoA R01	AI110964-06.pdf
NoA R01	AI110964-01.pdf
Screen S	hot 2020-04-20 at 10.43.02 AM.png
Screen S	hot 2020-04-20 at 10.45.14 AM.png
10.1	

Hi Larry

Other sites in China – see 4th attachment.

Looks like East China Normal University received \$295,623 during the first 5 years (5th attachment).

In year 6, the Institute of Pathogen Biology received \$75,600.

Thanks, Mike

From: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}
Date: Wednesday, April 15, 2020 at 7:03 AM
To: "Tabak, Lawrence (NIH/OD) [E]" < ^{(b) (6)}
Cc: "Schwetz, Tara (NIH/OD) [E]" < (b) (6) "Wolinetz, Carrie (NIH/OD) [E]" < (b) (6)
"Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}
Subject: Re: Wuhan lab research
Good morning – see Section IV of the NoAs:
• Type 1: Wuhan gets 134K to 159K per year.
• Type 2: Wuhan gets \$76,301.
Thanks, Mike
From: "Tabak, Lawrence (NIH/OD) [E]" < ^{(b) (6)}
Date: Tuesday, April 14, 2020 at 10:05 PM
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}
Cc: "Schwetz, Tara (NIH/OD) [E]" < (b) (6)
Subject: Re: Wuhan lab research
https://projectreporter.nih.gov/project_info_description.cfm?aid=9819304&icde=49593891&ddparam=&ddvalue=&ddsub=&cr=1_
&csb=default&cs=ASC&pball=
can we get subproject info – costs to Wuhan?
From: "Tabak, Lawrence (NIH/OD) [E]" < ^{(b) (6)}
Date: Tuesday, April 14, 2020 at 10:00 PM
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}
Cc: "Schwetz, Tara (NIH/OD) [E]" < (b) (6)
Subject: Re: Wuhan lab research
-
Is this what they are referring to: <u>https://worldreport.nih.gov/app/#!/</u>
From: "Tabak, Lawrence (NIH/OD) [E]" < ^{(b) (6)}

Date: Tuesday, April 14, 2020 at 9:50 PM	
To: "Lauer, Michael (NIH/OD) [E]" <((b) (6)	
Cc: "Schwetz, Tara (NIH/OD) [E]" < ^{(b) (6)}	"Wolinetz, Carrie (NIH/OD) [E]" < ^{(b) (6)}
Subject: FW: Wuhan lab research	
Can I get this information asap please?	
From: "Pence, Laura (HHS/ASL)" < ^{(b) (6)}	
Date: Tuesday, April 14, 2020 at 9:47 PM	
To: "Tabak, Lawrence (NIH/OD) [E]" < ^{(b) (6)}	"Wolinetz, Carrie (NIH/OD) [E]"
< ^{(b) (6)} "Schwetz, Tara (NIH/OD) [E]"	< ^{(b) (6)}
Subject: Wuhan lab research	
Hi! Can we get info on this ASAP? Need for the morning. Sorry	for the fire drill.
Begin forwarded message:	
From: "Arbes, Sarah (HHS/ASL)" < ^{(b) (6)}	
Date: April 14, 2020 at 9:30:23 PM EDT	•
To: "Hallett, Adrienne (NIH/OD) [E]" < ^{(b) (6)}	"Pence, Laura (HHS/ASL)" < ^{(b) (6)}
Cc: "Morse, Sara (HHS/ASL)" < ^{(b) (6)}	
Subject: For AMA in the morning	
Adrienne and Laura –	

Can you please help me run ground truth to this article?: <u>https://www.soundhealthandlastingwealth.com/health-news/u-s-government-gave-3-7million-grant-to-wuhan-lab-that-experimented-on-coronavirus-source-bats/</u>

Congressman Gaetz is publicly criticizing HHS/NIH for funding the Wuhan laboratory's bat research. Here's this quote from another article: "I'm disgusted to learn that for years the US government has been funding dangerous and cruel animal experiments at the Wuhan Institute, which may have contributed to the global spread of coronavirus, and research at other labs in China that have virtually no oversight from US authorities."

- How long have we been giving research dollars to this lab?
- How much have we given?
- For what purpose?
- If asked to defend our research dollars going to this lab for this purpose, what do you recommend we say?
- Anything else we should know?

Thanks	much!
Sarah	

QVR FACTS

FACTS Data Snapshot for: 2-R01-Al110964-06 (DASZAK, PETER) Understanding the Risk of Bat Coronavirus Emergence

Launch the FACTS System FACTS

Hop to Country Project Information CHINA SINGAPORE

Project Info	
Project Number	2-R01-Al110964-06 (as reflected under competing project number 2-R01-Al110964-06 in FACTS)
PI Name	DASZAK, PETER
Org Name	ECOHEALTH ALLIANCE, INC.
Project Title	Understanding the Risk of Bat Coronavirus Emergence
FY/Project Dates	2019 (Project Period from 2014-06-01 to 2024-06-30)
Project Status	Awarded (05)
Foreign Appl Flag	Domestic Application with Foreign Collaboration (2)

CHINA State Department Clearance Request (SDCR ID 219890) NIAID Contact SDCR ACTIONS ACTION DATES Bernabe, Gayle Approved 2019-05-30 Click the - to hide the Research Objective listed on State Department Clearance. Phone: (b) (6) Approve Submit to State Department 2019-05-30 2019-05-29 This work is an extension and renewal of a previous award, approved under c earances 202191 and 211200. Send to Agency The aims of this research project are to examine the mechanism through which coronaviruses (CoVs) jump 2019-05-28 from animal hosts/reservoirs to humans (spillover events). To accomplish this work the PI and his team will IC Update 2019-05-24 conduct detai ed surveillance for coronaviruses in four provinces: Yuman Guizhou, Guangxi, and Guangdong. 2019-05-10 IC Save The exact sites have not yet been identified; as in the previous award, sites will be se ected from the four provinces as work progresses. Surveil ance will include sampling of wild bat populations. Samples will be collected from animals from each of these sites, and will be analyzed to determine what coronaviruses are present, and whether the viruses are able to infect humans. The investigators p an to collect samples from bats, approximately 5,000 samp es total from 15-20 species across all four provinces. Animals will be captured and lightly anesthetized if necessary. They will be swabbed (mouth/nose, urogenital tract, and rectum), and a small amount of blood will be col ected. If availab e, feces and urine will also be col ected. Nearly all wild bats will be released unharmed after sampling. A small number of bats (maximum of 2 per species) may be euthanized in order to collect ung and intestinal tissue required for characterizing viral receptors. In order to understand whether select strains of bat-borne CoVs utilize receptors found in bats have the potential to infect people, the investigators will use mice that have been genetically modified to express the human receptor for SARS-CoV. The investigators anticipate identifying 5-6 SARS-related-CoVs that will be tested in mice, using approximately 15-20 mice per virus strain. A maximum of 120 mice will be used for this work over the project. All work involving samples and viral isolates from bats will be performed at the Wuhan Institute of Virology. All animal work will be performed by trained individuals in accordance with the American Veterinary Medical Association guidelines, and the project is overseen by veterinarians. This work has also been reviewed and approved by the investigator's Institutional Animal Care and Use Committee. This project will also study human exposure to animal coronaviruses across the same four provinces in southern China. Samples will be collected from each of these sites from individuals who 1) who are highly exposed to bats in community settings, including through hunting, butchering, or general handling within the context of their living or working environment (18+ years old); and 2) patients admitted to hospitals and clinics presenting with disease symptoms of clinically-defined severe/acute respiratory illness (SARI/ARI) or Influenza-like illness (ILI) of unknown origin (12+ years old). Subjects will be enrolled on a vo untary basis and informed consent will be obtained from all participants. Consenting participants will provide biological samples and complete a questionnaire at the time of acute illness and 35 days after resolution of illness. There will be no follow-up among community participants after initial sample collection. The study population will be selected from the Yunnan, Guangxi, Guangdong, and Guizhou provinces of China. They plan to enroll: 1) in 12 clinic sites across the four provinces, 2,750 individuals (accounting for an estimated 40% loss from follow-up); and 2) in 8 community sites, 1,650 individuals per each of the four provinces, poo ed across two sites for each province for a total of 6,660 participants. Enrollment is anticipated to be 100% Asian, with a 50/50 split between males and fema es. All human subject work will be managed by the team at the Institute for Pathogen Biology. Site Flags Budget Period Verified By Verified Date Collaborator/Site (Site ID: 262256) Budget Amt ZHU, GUANGJIAN Animals: Y EAST CHINA NORMAL UNIVERSITY FWA: School of Life Science, B327 Humans: N Science building, 3663 Zhongshan Beilu Shanghai 200062

Collaborator/Site (Site ID: 262253) GUO, LI INSTITUTE OF PATHOGEN BIOLOGY Dong Dan San Tiao, No. 9 Dongcheng District Beijing 100730	Site Flags Animals: N FWA: Y Humans: Y	Budget Period	Budget Amt	Verified By	Verified Date
Collaborator/Site (Site ID: 262252)	Site Flags	Budget Period	Budget Amt	Verified By	Verified Date
REN, L LI INSTITUTE OF PATHOGEN BIOLOGY Dong Dan San Tiao, No. 9 Dongcheng District	Animals: N FWA: Y Humans: Y				

https://apps.era.nih.gov/qvr/web/dd_facts_snap.cfm?applid=9819304&sourceCode=CURRENT#

Beijing 100730

PRINT CLOSE Appl Id: 981930

Collaborator/Site (Site ID: 262251) HU, BEN WUHAN INSTITUTE OF VIROLOGY Xiao Hong Shan, No. 44 Wuchang District Wuhan 430071	Site Flags Animals: Y FWA: Humans: N	Budget Period	Budget Amt	Verified By	Verified Date
Collaborator/Site (Site ID: 261948) SHI, ZHENG LI WUHAN INSTITUTE OF VIROLOGY Xiao Hong SHan, No. 44 Wuchang District Wuhan 430071	Site Flags Animals: Y FWA: Humans: N	Budget Period	Budget Amt	Verified By	Verified Date
Collaborator/Site (Site ID: 262250) ZHOU, PENG WUHAN INSTITUTE OF VIROLOGY Xiao Hong SHan, No. 44 Wuchang District Wuhan 430071	Site Flags Animals: Y FWA: Humans: N	Budget Period	Budget Amt	Verified By	Verified Date
SINGAPORE					
State Department Clearance Request (SDCR ID 219753)		NIAID Contact	SDCR	ACTIONS	ACTION DATES
C ick the + to show the Research Objective listed on State Department (Clearance	<u>Bernabe, Gayle</u> Phone: 301-451-10	Send	Approval to Agency it to State Department	2019-05-20 2019-05-20 2019-05-06 2019-05-06 2019-05-01
Collaborator/Site (Site ID: 262258) WANG, LINFA DUKE-NUS MEDICAL SCHOOL	Site Flags Animals: N FWA:	Budget Period	Budget Amt	Verified By	Verified Date
8 College Road Singapore 169857	Humans: N				



RESEARCH Department of Health and Human Services National Institutes of Health

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Grant Number: 2R01AI110964-06 REVISED FAIN: R01AI110964

Principal Investigator(s):

PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Dr. Daszak, Peter PD/PI 460 West 34th Street Suite 1701 New York, NY 100012320

Award e-mailed to: (b) (6)

Period Of Performance: Budget Period: 07/24/2019 - 06/30/2020 Project Period: 06/01/2014 - 06/30/2024

Dear Business Official:

The National Institutes of Health hereby revises this award to reflect a decrease in the amount of \$71,770 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01AI110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website

<u>http://grants.nih.gov/grants/policy/coi/</u> for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV

Sincerely your,

Tseday G Girma Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

SECTION I – AWARD DATA – 2R01AI110964-06 REVISED	
Award Calculation (U.S. Dollars)	
Salaries and Wages	\$170,123
Fringe Benefits	\$53,590
Personnel Costs (Subtotal)	\$223,713
Consultant Services	\$49,750
Materials & Supplies	\$20,850
Travel	\$15,027
Subawards/Consortium/Contractual Costs	\$229,651
Federal Direct Costs	\$538,991
Federal F&A Costs	\$122,989
Approved Budget	\$661,980
Total Amount of Federal Funds Obligated (Federal Share)	\$661,980
TOTAL FEDERAL AWARD AMOUNT	\$661,980
AMOUNT OF THIS ACTION (FEDERAL SHARE)	(\$-71,770)

SUMMARY TOTALS FOR ALL YEARS						
YR	THIS AWARD	CUMULATIVE TOTALS				
6	\$661,980	\$661,980				
7	\$637,980	\$637,980				
8	\$637,980	\$637,980				
9	\$637,980	\$637,980				
10	\$637,980	\$637,980				

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

Fiscal Information:

CFDA Name:	Allergy and Infectious Diseases Research
CFDA Number:	93.855
EIN:	1311726494A1
Document Number:	RAI110964B
PMS Account Type:	P (Subaccount)
Fiscal Year:	2019

IC	CAN	2019	2020	2021	2022	2023
AI	8472364	\$661,980	\$637,980	\$637,980	\$637,980	\$637,980

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

NIH Administrative Data:

PCC: M51C B / OC: 414B / Released: ^{(b) (6)} 08/02/2019 Award Processed: 08/05/2019 12:01:51 AM

SECTION II - PAYMENT/HOTLINE INFORMATION - 2R01AI110964-06 REVISED

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant_nih.gov/grant_/policy/awardcondition_htm</u>

SECTION III - TERMS AND CONDITIONS - 2R01AI110964-06 REVISED

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

- a. The grant program legislation and program regulation cited in this Notice of Award.
- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.

- c. 45 CFR Part 75.
- d. National Policy Requirements and all other requirements described in the NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. Federal Award Performance Goals: As required by the periodic report in the RPPR or in the final progress report when applicable.
- f. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at http://grants.nih.gov/grants/policy/awardconditions.htm for certain references cited above.)

Research and Development (R&D): All awards issued by the National Institutes of Health (NIH) meet the definition of "Research and Development" at 45 CFR Part§ 75.2. As such, auditees should identify NIH awards as part of the R&D cluster on the Schedule of Expenditures of Federal Awards (SEFA). The auditor should test NIH awards for compliance as instructed in Part V, Clusters of Programs. NIH recognizes that some awards may have another classification for purposes of indirect costs. The auditor is not required to report the disconnect (i.e., the award is classified as R&D for Federal Audit Requirement purposes but non-research for indirect cost rate purposes), unless the auditee is charging indirect costs at a rate other than the rate(s) specified in the award document(s).

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the System for Award Management (SAM). Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing thi requirement and other additional information

Thi award ha been a igned the Federal Award Identification Number (FAIN) R01AI110964 Recipients must document the assigned FAIN on each consortium/subaward issued under this award

Ba ed on the project period tart date of thi project, thi award i likely ubject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170 There are condition that may e clude thi award; ee http://grants.nih.gov/grants/policy/awardconditions.htm for additional award applicability information

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: <u>http://publicacce_____nih.gov/</u>

In accordance with the regulatory requirements provided at 45 CFR 75.113 and Appendix XII to 45 CFR Part 75, recipient that have currently active Federal grant , cooperative agreement , and procurement contracts with cumulative total value greater than \$10,000,000 must report and maintain information in the Sy tem for Award Management (SAM) about civil, criminal, and administrative proceedings in connection with the award or performance of a Federal award that reached final di po ition within the mo t recent five year period The recipient mu t al o make semiannual disclosures regarding such proceedings. Proceedings information will be made publicly available in the de ignated integrity and performance y tem (currently the Federal Awardee Performance and Integrity Information System (FAPIIS)). Full reporting requirements and procedure are found in Appendi II to 45 CFR Part 75 Thi term doe not apply to NIH fellowships.

SECTION IV – AI Special Terms and Conditions – 2R01AI110964-06 REVISED

Clinical Trial Indicator: No

This award does not support any NIH-defined Clinical Trials. See the NIH Grants Policy Statement Section 1.2 for NIH definition of Clinical Trial.

REVISED AWARD: This award is revised to adjust the budget in accordance with the letter from Aleksei Chmura/ECOHealth Alliance.

Supersedes previous Notice of Award dated 07/24/2019.

This Notice of Award (NoA) includes funds for activity with **The University of North Carolina at Chapel Hill** in the amount of **\$77,750** (**\$50,000** direct costs + **\$27,750**F&A costs).

This Notice of Award (NoA) includes funds for activity with **Wuhan Institute of Virology** in the amount of **\$76,301** (**\$70,649** direct costs + **\$5,652** F&A costs).

This Notice of Award (NoA) includes funds for activity with **Institute of Pathogen Biology** in the amount of **\$75,600** (**\$70,000** direct costs + **\$5,600** F&A costs).

The Research Performance Progress Report (RPPR), Section G.9 (Foreign component), includes reporting requirements for all research performed outside of the United States. Research conducted at the following site(s) must be reported in your RPPR:

Wuhan Institute of Virology, CHINA Institute of Pathogen Biology, CHINA East China Normal University, CHINA Duke-NUS Medical School, SINGAPORE

This award reflects current Federal policies regarding Facilities & Administrative (F&A) Costs for foreign grantees including foreign sub-awardees, and domestic awards with foreign sub-awardees. Please see: Chapter 16 Grants to Foreign Organizations, International Organizations, and Domestic Grants with Foreign Components, <u>Section 16.6 "Allowable and Unallowable Cost"</u> of the NIH Grants Policy.

This award may include collaborations with and/or between foreign organizations. Please be advised that short term travel visa expenses are an allowable expense on this grant, if justified as critical and necessary for the conduct of the project.

The budget period anniversary start date for future year(s) will be **July** 1.

Dissemination of study data will be in accord with the Recipient's accepted genomic data sharing plan as stated in the page(s) **203** of the application. Failure to adhere to the sharing plan as mutually agreed upon by the Recipient and the NIAID may result in Enforcement Actions as described in the NIH Grants Policy Statement.

This award is subject to the Clinical Terms of Award referenced in the NIH Guide for Grants and Contracts, July 8, 2002, NOT AI-02-032. These terms and conditions are hereby incorporated by

Page-5

reference, and can be accessed via the following World Wide Web address: <u>https://www.niaid.nih.gov/grants-contracts/niaid-clinical-terms-award</u> All submissions required by the NIAID Clinical Terms of Award must be forwarded electronically or by mail to the responsible NIAID Program Official identified on this Notice of Award.

Awardees who conduct research involving Select Agents (see 42 CFR 73 for the Select Agent list; and 7 CFR 331 and 9 CFR 121 for the relevant animal and plant pathogens at http://www.selectagents.gov/Regulations.html) must complete registration with CDC (or APHIS, depending on the agent) before using NIH funds. No funds can be used for research involving Select Agents if the final registration certificate is denied.

Prior to conducting a restricted experiment with a Select Agent or Toxin, awardees must notify the NIAID and must request and receive approval from CDC or APHIS.

Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well as changes in on-going experiments that would require change in the biosafety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be assumed an approval to other individuals who conduct the same restricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www.selectagents.gov/Regulations.html).

Highly Pathogenic Agent:

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment safety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/ohs/biosfty/bmbl5/bmbl5/bmbl5toc.htm</u>). Research funded under this grant mu t adhere to the BMBL, including u ing the BMBL recommended biocontainment level at a minimum. If your Institutional Biosafety Committee (or equivalent body) or designated in titutional bio afety official recommend a higher biocontainment level, the highe t recommended containment level must be used.

When ubmitting future Progre Report indicate at the beginning of the report

If no re earch with a Highly Pathogenic Agent or Select Agent ha been performed or i planned to be performed under this grant.

If your IBC or equivalent body or official has determined, for example, by conducting a risk a e ment, that the work being planned or performed under thi grant may be conducted at a biocontainment safety level that is lower than BSL3.

If the work involves Select Agents and/or Highly Pathogenic Agents, also address the following point

Any change in the u e of the Agent() or To in() including it re tricted experiments that have resulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, a determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide

A li t of the new and/or additional Agent() that will be tudied;
A description of the work that will be done with the Agent(s), and whether or not the work i a re tricted e periment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operate the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official It is important to note if the work is being done in a new location.

STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

Grants Management Specialist: Tseday G GirmaEmail: (b) (6)Phone: (b) (6)

Fax: 301-493-0597

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

SPREADSHEET SUMMARY GRANT NUMBER: 2R01AI110964-06 REVISED

INSTITUTION: ECOHEALTH ALLIANCE, INC.

Budget	Year 6	Year 7	Year 8	Year 9	Year 10
Salaries and Wages	\$170,123	\$170,123	\$170,123	\$170,123	\$170,123
Fringe Benefits	\$53,590	\$53,590	\$53,590	\$53,590	\$53,590
Personnel Costs (Subtotal)	\$223,713	\$223,713	\$223,713	\$223,713	\$223,713
Consultant Services	\$49,750	\$49,750	\$49,750	\$49,750	\$49,750
Materials & Supplies	\$20,850	\$14,850	\$14,850	\$14,850	\$14,850
Travel	\$15,027	\$15,027	\$15,027	\$15,027	\$15,027
Subawards/Consortium/Contractual	\$229,651	\$229,651	\$229,651	\$229,651	\$229,651
Co t					
Publication Co t		\$6,000	\$6,000	\$6,000	\$6,000
TOTAL FEDERAL DC	\$538,991	\$538,991	\$538,991	\$538,991	\$538,991
TOTAL FEDERAL F&A	\$122,989	\$98,989	\$98,989	\$98,989	\$98,989
TOTAL COST	\$661,980	\$637,980	\$637,980	\$637,980	\$637,980

Facilitie and Admini trative Co t	Year 6	Year 7	Year 8	Year 9	Year 10
F&A Co t Rate 1	32%	32%	32%	32%	32%
F&A Co t Ba e 1	\$384,340	\$309,340	\$309,340	\$309,340	\$309,340
F&A Cot 1	\$122,989	\$98,989	\$98,989	\$98,989	\$98,989





Grant Number:1R01Al110964-01FAIN:R01Al110964

Principal Investigator(s): PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Aleksei President 460 West 34th Street 17th Floor New York, NY 100012317

Award e-mailed to: (b) (6)

Budget Period: 06/01/2014 - 05/31/2015 **Project Period:** 06/01/2014 - 05/31/2019

Dear Business Official:

The National Institutes of Health hereby awards a grant in the amount of \$666,442 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01Al110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website http://grants.nih.gov/grants/policy/coi/ for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV.

Sincerely yours,

Laura A. Pone Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

SECTION I – AWARD DATA – 1R01AI110964-01

\$167,708
\$54,168
\$21,400
\$35,918
\$10,000
\$227,663
\$516,857
\$149,585
\$666,442
\$666,442
\$666,442
••••• <i>· ·</i> •

AMOUNT OF THIS ACTION (FEDERAL SHARE)

\$666,442

SUMMARY TOTALS FOR ALL YEARS				
YR	THIS AWARD	CUMULATIVE TOTALS		
1	\$666,442	\$666,442		
2	\$630,445	\$630,445		
3	\$611,090	\$611,090		
4	\$597,112	\$597,112		
5	\$581,646	\$581,646		

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

Fiscal Information:

CFDA Number:	93.855
EIN:	1311726494A1
Document Number:	RAI110964A

PMS Account Type:	P (Subaccount)
Fiscal Year:	2014

IC	CAN	2014	2015	2016	2017	2018
AI	8472350	\$666,442	\$630,445	\$611,090	\$597,112	\$581,646

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

NIH Administrative Data:

PCC: M51C / OC: 414A / Released: ^{(b) (6)} 05/20/2014 Award Processed: 05/08/2014 01:52:21 PM

SECTION II - PAYMENT/HOTLINE INFORMATION - 1R01AI110964-01

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant_nih.gov/grant_/policy/awardcondition_htm</u>

SECTION III - TERMS AND CONDITIONS - 1R01AI110964-01

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

a. The grant program legislation and program regulation cited in this Notice of Award.

- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.
- c. 45 CFR Part 74 or 45 CFR Part 92 as applicable.
- d. The NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at <u>http://grants.nih.gov/grants/policy/awardconditions.htm</u> for certain references cited above.)

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the Central Contractor Registration. Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing this requirement and other additional information.

This award has been assigned the Federal Award Identification Number (FAIN) R01AI110964. Recipients must document the assigned FAIN on each consortium/subaward issued under this award.

Based on the project period start date of this project, this award is likely subject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170. There are conditions that may exclude this award; see http://grants.nih.gov/grants/policy/awardconditions.htm for additional award applicability information.

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: http://publicacce____nih.gov/

Treatment of Program Income: Additional Co t

SECTION IV – AI Special Terms and Conditions – 1R01AI110964-01

THIS AWARD CONTAINS GRANT SPECIFIC RESTRICTIONS. THESE RESTRICTIONS MAY ONLY BE LIFTED BY A REVISED NOTICE OF AWARD.

RESTRICTION: This award is issued with the knowledge that subjects may be involved within the period of support, but definite plans were not set forth in the application as per 45 CFR 46.118. No human subjects may be involved in any project supported by this award until all requirements for Human Subjects research as identified in the PHS398/SF424 Instructions have been provided to and approved by NIH.

RESTRICTION: The present award is being made without a currently valid certification of IRB approval for this project with the following restriction: Only activities that are clearly severable and independent from activities that involve human subjects may be conducted pending the NIAID's acceptance of the certification of IRB review and approval.

No funds may be drawn down from the payment system and no obligations may be made against Federal funds for any research involving human subjects prior to the NIAID's notification to the grantee that the identified issues have been resolved and this restriction removed.

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This award includes funds for subcontract/consortium activity with <u>Wuhan Institute of Virology</u>, <u>CHINA</u> and is budgeted as follows:

| -Yr ′                | 1 -Y      | r 2       | -Yr 3     | -Yr 4     | -Yr 5     |
|----------------------|-----------|-----------|-----------|-----------|-----------|
| Total Direct Costs   | \$123,699 | \$128,718 | \$147,335 | \$147,335 | \$147,335 |
| F&A Costs @ 8%(MTDC) | \$9,896   | \$10,297  | \$11,787  | \$11,787  | \$11,787  |
| TOTAL COSTS          | \$133,595 | \$139,015 | \$159,122 | \$159,122 | \$159,122 |

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

# This award includes funds for subcontract/consortium activity with <u>East China Normal University</u>, CHINA and is budgeted as follows:

| -Yr                  | 1        | -Yr 2    | -Yr 3    | -Yr 4    | -Yr 5    |
|----------------------|----------|----------|----------|----------|----------|
| Total Direct Costs   | \$87,100 | \$67,300 | \$50,108 | \$39,167 | \$14,850 |
| F&A Costs @ 8%(MTDC) | \$6,968  | \$5,384  | \$4,009  | \$3,133  | \$2,404  |
| TOTAL COSTS          | \$94,068 | \$72,684 | \$54,117 | \$42,300 | \$32,454 |

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

#### Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well a change in on going e periment that would require change in the bio afety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be a umed an approval to other individual who conduct the ame re tricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www\_electagent\_gov/Regulation\_html)

#### Highly Pathogenic Agent

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment afety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/oh/bio\_fty/bmbl5/bmbl5/bmbl5toc.htm</u>) Re earch funded under thi grant must adhere to the BMBL, including using the BMBL-recommended biocontainment level at a minimum If your In titutional Bio afety Committee (or equivalent body) or de ignated institutional biosafety official recommend a higher biocontainment level, the highest recommended containment level mu t be u ed

When submitting future Progress Reports indicate at the beginning of the report:

If no research with a Highly Pathogenic Agent or Select Agent has been performed or is planned to be performed under thi grant

If your IBC or equivalent body or official ha determined, for e ample, by conducting a ri k assessment, that the work being planned or performed under this grant may be conducted at a biocontainment afety level that i lower than BSL3

If the work involve Select Agent and/or Highly Pathogenic Agent, al o addre the following points:

Any changes in the use of the Agent(s) or Toxin(s) including its restricted experiments that have re ulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, as determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide:

o A list of the new and/or additional Agent(s) that will be studied;

o A description of the work that will be done with the Agent(s), and whether or not the work is a restricted experiment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operates the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official. It is important to note if the work is being done in a new location.

#### STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

| <b>Grants Management Special</b>  | l <b>ist</b> : Laura A. Pone |                   |
|-----------------------------------|------------------------------|-------------------|
| <b>Email</b> : <sup>(b) (6)</sup> | Phone: (b) (6)               | Fax: 301-493-0597 |

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

#### SPREADSHEET SUMMARY GRANT NUMBER: 1R01AI110964-01

**INSTITUTION:** ECOHEALTH ALLIANCE, INC.

| Budget                      | Year 1    | Year 2    | Year 3    | Year 4    | Year 5    |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|
| Salarie and Wage            | \$167,708 | \$167,708 | \$167,708 | \$167,708 | \$167,708 |
| Fringe Benefit              | \$54,168  | \$54,168  | \$54,168  | \$54,168  | \$54,168  |
| Supplie                     | \$21,400  | \$19,250  | \$7,250   | \$7,000   | \$3,500   |
| Travel Co t                 | \$35,918  | \$35,918  | \$35,918  | \$35,918  | \$35,918  |
| Other Co t                  | \$10,000  | \$13,550  | \$11,050  | \$9,800   | \$9,400   |
| Con ortium/Contractual Co t | \$227,663 | \$211,699 | \$213,239 | \$201,422 | \$191,576 |
| TOTAL FEDERAL DC            | \$516,857 | \$502,293 | \$489,333 | \$476,016 | \$462,270 |
| TOTAL FEDERAL F&A           | \$149,585 | \$128,152 | \$121,757 | \$121,096 | \$119,376 |
| TOTAL COST                  | \$666,442 | \$630,445 | \$611,090 | \$597,112 | \$581,646 |

| Facilities and Administrative | Year 1    | Year 2    | Year 3    | Year 4    | Year 5    |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| Co t                          |           |           |           |           |           |
| F&A Co t Rate 1               | 44 1%     | 44 1%     | 44 1%     | 44 1%     | 44 1%     |
| F&A Cot Bae 1                 | \$339,194 | \$290,594 | \$276,094 | \$274,594 | \$270,694 |
| F&A Cot 1                     | \$149,585 | \$128,152 | \$121,757 | \$121,096 | \$119,376 |

Collaborator/Site (Site ID: 262256)

ZHU, GUANGJIAN EAST CHINA NORMAL UNIVERSITY School of Life Science, B327 Science building, 3663 Zhongshan Beilu Shanghai 200062

Collaborator/Site (Site ID: 262253)

GUO, LI INSTITUTE OF PATHOGEN BIOLOGY Dong Dan San Tiao, No. 9 Dongcheng District Beijing 100730

Collaborator/Site (Site ID: 262252)

REN, LILI INSTITUTE OF PATHOGEN BIOLOGY Dong Dan San Tiao, No. 9 Dongcheng District Beijing 100730

| Site Flags           | Budget Period  | B   |
|----------------------|----------------|-----|
| Animals: Y           |                |     |
| FWA:                 |                |     |
| Humans: N            |                |     |
| Site Flags           | Budget Period  | Bue |
|                      | budget i chida | Du  |
| Animals: N<br>FWA: Y |                |     |
| Humans: Y            |                |     |
| Site Flags           | Budget Period  | Bu  |
| Animals: N           |                |     |
| FWA: Y               |                |     |
|                      |                |     |

Humans: Y

### Budget Amt

Verified By

### Verified Date

### idget Amt

### Verified By

### Verified Date

### idget Amt

## Verified By

### Verified Date

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This award includes funds for subcontract/consortium activity with East China Normal University, CHINA and is budgeted as follows:

-Yr	1	-Yr 2	-Yr 3	-Yr 4	-Yr 5
Total Direct Costs	\$87,100	\$67,300	\$50,108	\$39,167	\$14,850
F&A Costs @ 8%(MTDC)	\$6,968	\$5,384	\$4,009	\$3,133	\$2,404
TOTAL COSTS	\$94,068	\$72,684	\$54,117	\$42,300	\$32,454

 From:
 "Lauer, Michael (NIH/OD) [E]" <^{(b) (6)}

 To:
 "Tabak, Lawrence (NIH/OD) [E]" <^{(b) (6)}

 Cc:
 "Lauer, Michael (NIH/OD) [E]" <^{(b) (6)}

 Subject:
 Re:

 Sent:
 Mon 4/27/2020 6:55:29 PM (UTC-05:00)

 Daszak letter 4 24 20.pdf

Attached

On 4/27/20, 7:44 PM, "Tabak, Lawrence (NIH/OD) [E]" <(b) (6)

wrote:

Please send me copy of the second letter re. Wuhan

Sent from my iPhone

DEPARTMENT OF HEALTH & HUMAN SERVICES



Public Health Service

National Institutes of Health National Institute of Allergy and Infectious Diseases Bethesda, Maryland 20892

24 April 2020

Drs. Aleksei Chmura and Peter Daszak EcoHealth Alliance, Inc. 460 W 34th St Suite 1701 New York, NY 10001

Re: Termination of NIH Grant R01 AI 110964

Dear Drs. Chmura and Daszak:

I am writing to notify you that the National Institute of Allergy and Infectious Diseases (NIAID), an Institute within the National Institutes of Health (NIH), under the Department of Health and Human Services (HHS) has elected to terminate the project *Understanding the Risk of Bat Coronavirus Emergence*, funded under grant R01 AI110964, for convenience. This grant project was issued under the authorization of Sections 301 and 405 of the Public Health Service Act as amended (42 USC 241 and 284). This grant was funded as a discretionary grant as outlined in the <u>NIH Grants Policy Statement</u>, which states that the decision not to award a grant, or to award a grant at a particular funding level, is at the discretion of the agency, in accordance with NIH's dual review system.

At this time, NIH does not believe that the current project outcomes align with the program goals and agency priorities. NIAID has determined there are no animal and human ethical considerations, as this project is not a clinical trial, but rather an observational study.

As a result of this termination, a total of \$369,819.56 will be remitted to NIAID and additional drawdowns will not be supported. The remaining funds have been restricted in the HHS Payment Management System, effective immediately.

Please let me know if you have any questions concerning the information in this letter.

Sincerely, Lauer, Michael (NIH/OD) [E] Digitally signed by Lauer, Michael (NIH/OD) [E] Date: 2020.04.24 16:41:16 -04'00'

Michael S Lauer, MD NIH Deputy Director for Extramural Research Email: ^{(b) (6)}

cc: Dr. Erik Stemmy Ms. Emily Linde



From: "Bettencourt, Alice (HHS/ASFR)" < (b) (6) To: "Lauer, Michael (NIH/NHLBI) [E]" < (b) (6) "Black, Jodi (NIH/OD) [E]" < (b) (6) (6) Cc: "Lauer, Michael (NIH/NHLBI) [E]" < (b) (6) Subject: RE: Subrecipients Under FAIN R01AI110964 Sent: Mon 4/20/2020 4:00:40 PM (UTC-05:00) Thanks Mike!	"Bulls, Michelle G. (NIH/OD) [E]" < ^{(b) (6)}
From: Lauer, Michael (NIH/OD) [E] ^{(b) (6)}	
Sent: Monday, April 20, 2020 4:57 PM	
To: Bettencourt, Alice (HHS/ASFR) < ^{(b) (6)}	Bulls, Michelle G. (NIH/OD) [E] < ^{(b) (6)} Black,
Jodi (NIH/OD) [E] <(b) (6)	
Cc: Lauer, Michael (NIH/NHLBI) [E] < ^{(b) (6)}	
Subject: Re: Subrecipients Under FAIN R01AI110964	
Hi Alice – here's the info I have – from NIAID. Thanks, Mike	
R01-AI-110964, Peter Daszak, PI to ECOHEALTH ALLIANCI	Ξ
Initial competitive segment (starting with Type 1, grant y Funded Chinese sites:	ears 01-05 funded from 06/01/2014 - 05/31/2019)
East China Normal University, Shanghai \$295,623 (5	years)
Wuhan Inst. Virology, Wuhan \$749,966 (5	years)
Chinese collaborators (no funds awarded) also located at Center for Disease Control and Prevention, Guangzhou Guangdong Entomological Institute, Shanghai Yunnan Institute of Endemic Diseases Control and Prever	
Second compatitive segment (starting with Type 2, revise	
Second competitive segment (starting with Type 2, revise Currently in year 6 (budget period ends 6/30/2020, proje Funded Chinese sites:	
Institute of Pathogen Biology, Beijing \$75,600 (1 y	ear)
Wuhan Institute of Virology, Wuhan \$76,301 (1 y	ear)
Chinese collaborators also located at: East China Normal University, Shanghai receiving consult	ant costs for \$49,750 (1 year)
From: "Bettencourt, Alice (HHS/ASFR)" < ^{(b) (6)}	
Date: Monday, April 20, 2020 at 4:49 PM	
To: "Bulls, Michelle G. (NIH/OD) [E]" < ^{(b) (6)}	"Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}
Subject: Subrecipients Under FAIN R01AI110964	
Mike, Michelle,	
OMB has requested via Jen M. to know if there are subrecipier	nts to Ecohealth Alliance under the subject FAIN. No subrecipients
are reported in USASpending. Could you please have the appli	cation checked and let me know. (b) (5)

Thank you,

Alice

Sent: Subject:	Thur 4/23/2020 9:41:23 AM (UTC-05:00)	Actions needed regarding 2R01AI110964-06
From:	"Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}	Actions needed regarding 21(01Ai110904-00
To:	"Bulls, Michelle G. (NIH/OD) [E]" <(b) (6)	"Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}
Cc:	"Schwetz, Tara (NIH/OD) [E]" < ^{(b) (6)} , Robert (NIH/OD) [E]" < ^{(b) (6)}	Compliance Review < ^{(b) (6)}
I di walei		
Yes, plea	ise, that would be great	
	Bulls, Michelle G(NIH/OD) [E]" < ^{(b) (6)}	
	hursday, April 23, 2020 at 10:37 AM	
To: "Lau	uer, Michael (NIH/OD) [E]" < ^{(b) (6)}	"Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}
	wetz, Tara (NIH/OD) [E]" < ^{(b) (6)}	Compliance Review < ^{(6) (6)}
	er, Robert (NIH/OD) [E]" < ^{(b) (6)}	
Subject	RE: Please read and acknowledge receip	ot Actions needed regarding 2R01AI110964-06
Ok, wou send it t		ne outcome of our discussions w/them? Let me know and I will be sure to
Thank		
Michelle		
From: La	uer, Michael (NIH/OD) [E] < ^{(b) (6)}	
	ursday, April 23, 2020 10:36 AM	
	, Michelle G. (NIH/OD) [E] < ^{(b) (6)}	Black, Jodi (NIH/OD) [E] < ^{(b) (6)}
	/etz, Tara (NIH/OD) [E] < ^{(b) (6)}	Compliance Review < ^{(b) (6)} Tarwater, Robert
•		hael (NIH/OD) [E] < ^{(b) (6)}
Subject:	Re: Please read and acknowledge receipt /	Actions needed regarding 2R01AI110964-06
Many th	anks – we'll be discussing the grant at Micros	staff late this afternoon.
Best, Mi	ke	
From: "	Bulls, Michelle G. (NIH/OD) [E]" < ^{(b) (6)}	
	hursday, April 23, 2020 at 10:28 AM	
	uer, Michael (NIH/OD) [E]" < ^{(b) (6)}	"Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}
	wetz, Tara (NIH/OD) [E]" < ^{(b) (6)}	Compliance Review < ^{(b) (6)}
"Bulls, N	Aichelle G. (NIH/OD) <mark>[</mark> E]" < ^{(ه) (6)}	"Tarwater, Robert (NIH/OD) [E]" < ^{(b) (6)}
Subject	RE: Please read and acknowledge receip	ot Actions needed regarding 2R01AI110964-06
We have	e shared those concerns w/NIAID. We have a	nother meeting w/them today to discuss next steps on this, as well. Thanks.
From: La	uer, Michael (NIH/OD) [E] < ^{(b) (6)}	
	esday, April 21, 2020 7:31 PM	
	<, Jodi (NIH/OD) [E] < ^{(b) (6)}	
	r, Michael (NIH/OD) [E] < ^{(b) (6)}	Bulls, Michelle G. (NIH/OD) [E] < ^{(b) (6)} Schwetz, Tara
•) [E] < ^{(b) (6)} Compliance R	
Subject:	FW: Please read and acknowledge receipt	Actions needed regarding 2R01Al110964-06
Hi Jodi –	as we discussed and please note. (b) (5)	; we are waiting for Larry to circle back to us
on that a	as well.	
Many th	anks, Mike	
From: "	Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}	
	uesday, April 21, 2020 at 7:28 PM	
To: Pete	er Daszak < ^{(b) (6)}	

Cc: "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)} (NIH/NIAID) [E]" < ^{(b) (6)}	Aleksei Chmura < ^{(b) (6)} "Erbelding, Emily (NIH/NIAID) [E]" < ^{(b) (6)}	"Stemmy, Erik "Lauer,
Michael (NIH/OD) [E]" < ^{(b) (6)} Subject: Re: Please read and acknowledge	e receipt Actions needed regarding 2R01AI110964	4-06
Many thanks Peter for your response.		
 You agree that you will not provide a 	Type 2 award and no contract has been signed. Iny funds to WIV until and unless directed otherwise by l Iype 2 awards have been documented in the progress rep	
We appreciate your working with us.		
Best, Mike		
Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)		
From: Peter Daszak < ^{(b) (6)}		
Date: Tuesday, April 21, 2020 at 7:07 PM		
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}		
Cc: "Black, Jodi (NIH/OD) [E]" <(b) (6)	Aleksei Chmura < ^{(b) (6)}	"Stemmy, Erik

"Erbelding, Emily (NIH/NIAID) [E]" <(b) (6)

Subject: RE: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06

Dear Michael - Confirming receipt of your email. I'm also cc'ing the following people so they're aware of this request:

1. Our AOR – Dr. Aleksei Chmura, who has access to all our records

(NIH/NIAID) [E]" <^{(b) (6)}

2. My Program Officer for this award, Dr. Erik Stemmy & the Division Director (DMID), Dr. Emily Erberding, so they are informed and aware of the request and our response.

That said we need some time to go through the request for information and will provide this as quickly as we can.

However, I can categorically state that no funds form 2R01AI110964-06 have been sent to Wuhan Institute of Virology, nor has any contract been signed. Furthermore, we will comply with NIAID requirements, of course.

Concerning the request for information on all of the sites linked to this award in China, you should be aware that these are documented in our progress reports over the course of the grant. As you can understand we are under enormous pressure to generate data related to the current pandemic, and we do not want to divert staff to this effort. We are hoping the previously filed reports will satisfy this request.

We are well aware of the political concerns over the origins of this outbreak. Our collaboration with Wuhan Institute of Virology has been scientific and we have been consistently impressed with the scientific capabilities of that laboratory and its research staff. Our joint work has led to a series of critical papers published in high impact journals that served to raise awareness of the future threat coronaviruses pose for global health and therefore US national security. Scientific insights with epidemiological significance have been jointly published and our relationship has always been open and transparent and with one concern only, scientific validity. We are concerned that current actions may jeopardize 15 years of fruitful collaboration with colleagues in Wuhan, who are working at the leading edge to design vaccines and drugs that could help us fight this new threat in future years. It is guite remarkable that of the 5 vaccine candidates listed by WHO that are already in human trials, 3 have been developed in China. That said, we of course will do all we can to make sure any further questions from NIH or any Federal agency are addressed to our fullest knowledge.

Yours sincerely,

Peter Daszak President

EcoHealth Alliance 460 West 34th Street New York, NY 10001 USA

Tel.: (b) (6)

Website: <u>www.ecohealthalliance.org</u> Twitter: <u>@PeterDaszak</u>

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

From: Lauer, Michael (NIH/OD) [E] < ^{(b) (6)}		
Sent: Monday, April 20, 2020 4:31 PM		
To: Kevin Olival < ^{(b) (6)}	Peter Daszak < ^{(b) (6)}	
Cc: Naomi Schrag < ^{(b) (6)}	Black, Jodi (NIH/OD) [E] < ^{(b) (6)}	Lauer, Michael (NIH/OD) [E]
< ^{(b) (6)}		

Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06 Importance: High

Thank you Kevin

- We need to work with a senior responsible business official usually PI's and senior business officials are different people.
- When I looked you up on the web, I see the Columbia logo (see attached screenshot). Specifically, it appears to be Columbia University > Ecology, Evolution, and Environmental Biology > EcoHealth Alliance (labeled as an
- "Affiliation/Department"). Thus the web profile makes it look to me as if EcoHealth Alliance is linked to Columbia University.
- In any case, I'm looping in Dr. Daszak.
- We need to know all sites in China that have been in any way linked to this award (Type 1 and Type 2). We have data in NIH, but we want to make absolutely sure that we're of the same understanding.

We greatly appreciate your prompt attention to this matter.

Best, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

 From: Kevin Olival <</td>
 (b) (6)

 Date: Monday, April 20, 2020 at 4:14 PM

 To: "Lauer, Michael (NIH/OD) [E]" <</td>
 (b) (6)

 Cc: Naomi Schrag <</td>
 (b) (6)

 Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06

Dear Mike,

I received the attached letter, however please note:

1. I am not the PI on this award. You should contact Dr. Peter Daszak ($^{(b) (6)}$ project for EcoHealth Alliance.

2. Columbia University is not involved in this NIH project, and it is not clear to me why Naomi and Columbia University were included.

Thank you, Kevin

Kevin J. Olival, PhD Vice President for Research

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

(b) (6) (direct) (b) (6) (mobile) 1.212.380.4465 (fax)

www.ecohealthalliance.org

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

On Apr 20, 2020, at 2:16 PM, Lauer, Michael (NIH/OD) [E] <^{(b) (6)} wrote:

Many thanks Naomi – it would be helpful for us to know about all China-based participants in this work since the Type 1 grant started in 2014 – who they were and how much money they received. The sooner you can get us that information, the better.

Best, Mike

From: Naomi Schrag < ^{(b) (6)}	
Date: Sunday, April 19, 2020 at 11:59 AM	
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}	ıı(b) (6)
< ^{(b) (6)} Naomi Schr	ag < ^{(b) (6)}
Cc: "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}	
Subject: RE: Please read and acknowledge read	eceipt Actions needed regarding 2R01Al110964-06
Deex Dr. Lever	
Dear Dr. Lauer,	ll ant hank to vou as soon as Lean
I am acknowledging receipt of this letter and will Sincerely,	il get back to you as soon as I can.
Naomi Schrag	
From: Lauer, Michael (NIH/OD) [E] < ^{(b) (6)}	
Sent: Sunday, April 19, 2020 11:00 AM	
To: ^{(b) (6)} Naomi Schrag	< ^{(b) (6)}
Cc: Black, Jodi (NIH/OD) [E] < ^{(b) (6)}	
Subject: Please read and acknowledge receipt	Actions needed regarding 2R01Al110964-06
Importance: High	
,	
Dear Dr. Olival and Ms. Schrag	
Please see attached.	
Many thanks, Mike	

NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: 301-496-1096 Email: (b) (6)

<EcoHealth Alliance re Al grant 4 19 20.pdf>

From: To: < ^{(b) (6)}	Peter Daszak < ^{(b) (6)} "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}	Naomi Schrag < ^{(b) (6)}	Kevin Olival
Cc: Subject: Sent:	"Black, Jodi (NIH/OD) [E]" < ^{(b) (6)} RE: Please read and acknowledge receipt Acti Tue 4/21/2020 12:32:21 AM (UTC-05:00)	ions needed regarding 2R01AI110964-06	

Dear Michael Lauer & Jodi Black – I now have your email and will deal with it directly with you and your staff. Naomi is correct that there is no involvement of Columbia University in this grant. I'm sure NIH has records to confirm that.

From this moment on, I will not cc any staff at Columbia as part of this discussion, and I hope you will also honor that. Respectfully, the discussion of whether or not EHA is an affiliate of CU is entirely irrelevant to the request that you contacted us about, and should remain a private matter between EcoHealth Alliance and Columbia University.

I'll look over your email and respond tomorrow.

Cheers,

Peter

Peter Daszak President

EcoHealth Alliance 460 West 34th Street New York, NY 10001 USA

Tel.: ^{(b) (6)} Website: <u>www.ecohealthalliance.org</u> Twitter: @PeterDaszak

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

From: Lauer, Michael (NIH/OD) [E] <) (6)	
Sent: Monday, April 20, 2020 6:35 PM		
To: Naomi Schrag < ^{(b) (6)}	Kevin Olival < ^{(b) (6)}	Peter Daszak
< ^(b) (6)		
Cc: Black, Jodi (NIH/OD) [E] < ^{(b) (6)}	Lauer, Michael (NIH/OD) [E]	< ^{(b) (6)}
Subject: Re: Please read and acknowl	edge receipt Actions needed regarding 3	2R01AI110964-06

Thanks Naomi – not the impression an observer would get looking at the website (see screen shot), but we understand about the grant.

If they "are entirely separate entities" then why does Columbia identify EcoHealth Alliance as an "Affiliation/Department" on its website.

Maybe with the label "Affiliation/Department" you would have a clearly visible disclaimer that says, "EcoHealth Alliance is not affiliated with nor a department of Columbia"? – although even that is internally contradictory.

Best, Mike



Date: Monday, April 20, 2020 at 5	:19 PM		
To: "Lauer, Michael (NIH/OD) [E]" " ^{(b) (6)}	< ^(b) (6) (b) (6)	Kevin Olival < ^{(b) (6)}	
Cc: Naomi Schrag < ^{(b) (6)}	"Black, Jodi (NII	H/OD) [E]" < ^{(b) (6)}	
Subject: RE: Please read and ackn	owledge receipt Actions	needed regarding 2	R01AI110964-06
Dear Dr. Lauer,			
appointments in Columbia's Ecology,	Evolution, and Environment	al Biology ("E3B") dep	ated with EcoHealth Alliance do have adjunct partment, but we are not aware of any ford in our grants system to the contrary.
We would be happy to answer any ad	dditional questions. Thank y	ou.	
Sincerely,			
Naomi Schrag			
Naomi J. Schrag Vice President for Research Complian Office of Research Compliance and 7 475 Riverside Drive, Suite 840			
New York, New York 10115 (b) (6) www.researchcompliance.columbia.e	:du		
From: Lauer, Michael (NIH/OD) [E] < ⁽ Sent: Monday, April 20, 2020 4:31 PM	b) (6)		
To: Kevin Olival < ^{(b) (6)}	(b) (6)		
Cc: Naomi Schrag < ^{(b) (6)}	Black, Jodi (NIH/OD)	[E] < ^{(b) (6)}	Lauer, Michael (NIH/OD) [E]

(b) (6)

Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06 Importance: High

Thank you Kevin

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We greatly appreciate your prompt attention to this matter.

Best, Mike

Michael S Lauer, MD
NIH Deputy Director for Extramural Research
1 Center Drive, Building 1, Room 144
Bethesda, MD 20892
Phone:(b) (6)
Email:(b) (6)

To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)} Cc: Naomi Schrag < ^{(b) (6)} "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)} Subject: Re: Please read and acknowledge receipt Actions needed regarding 2R01Al110964-06
Dear Mike,
I received the attached letter, however please note:
 I am not the PI on this award. You should contact Dr. Peter Daszak (^{(b) (6)} who is the PI and leading this project for EcoHealth Alliance. Columbia University is not involved in this NIH project, and it is not clear to me why Naomi and Columbia University were included.
Thank you, Kevin
Kevin J. Olival, PhD Vice President for Research
EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001
(b) (6) (direct) (b) (6) (mobile) 1.212.380.4465 (fax) www.ecohealthalliance.org EcoHealth Alliance develops science-based solutions to prevent pandemics <i>and</i> promote conservation
On Apr 20, 2020, at 2:16 PM, Lauer, Michael (NIH/OD) [E] < ^{(b) (6)} wrote: Many thanks Naomi – it would be helpful for us to know about <mark>all</mark> China-based participants in this work since the Type 1 grant started in 2014 – who they were and how much money they received. The sooner you can get us that information, the better.
Best, Mike
From: Naomi Schrag < ^{(b) (6)} Date: Sunday, April 19, 2020 at 11:59 AM To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)} < ^{(b) (6)} Naomi Schrag < ^{(b) (6)} Cc: "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)} Subject: RE: Please read and acknowledge receipt Actions needed regarding 2R01Al110964-06
Dear Dr. Lauer, I am acknowledging receipt of this letter and will get back to you as soon as I can. Sincerely, Naomi Schrag
From: Lauer, Michael (NIH/OD) [E] < ^{(b) (6)} Sent: Sunday, April 19, 2020 11:00 AM To: ^{(b) (6)} Naomi Schrag < ^{(b) (6)} Cc: Black, Jodi (NIH/OD) [E] < ^{(b) (6)} Subject: Please read and acknowledge receipt Actions needed regarding 2R01AI110964-06 Importance: High

Dear Dr. Olival and Ms. Schrag

Please see attached.

Many thanks, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

<EcoHealth Alliance re Al grant 4 19 20.pdf>

State Department cables warned of safety issues at Wuhan lab studying bat coronaviruses

Josh Rogin



A woman wearing a protective suit at a hospital in Wuhan, China. (Aly Song/Reuters)

Two years before the novebronaviruspandemic upended the world, U.S. Embassy officials visited a Chinese research facility in the city of Wuhan several times and sent two official warnings back to Washington about inadequate safety at the lab, which was conducting risky studies on coronaviruses from bats. The cables have fueled discussions inside the U.S. government about whether this or another Wuhan lab was the source of the virus — even though conclusive proof has yet to emerge. In January 2018, the U.S. Embassy in Beijing took the unusual step of repeatedly sending U.S. science diplomats to the Wuhan Institute of Virology (WIV), which had in 2015 become China's first laboratory to achieve the highest level of international bioresearch safety (known as BSL-4). WIV issue a news release in English about the last of these visits, which occurred on March 27, 2018. The U.S. delegation was led by Jamison Fouss, the consul general in Wuhan, and Rick Switzer, the embassy's counselor of environment science, technology and health. Last week, Wakased that statement from its website, though it remains archived on the Internet.

Full coverage of the coronavirus pandemic

What the U.S. officials learned during their visits concerned them so much that they dispatched twodiplomatic cables categorized as Sensitive But Unclassified back to Washington. The cables warned about safety and management weaknesses at the WIV lab and proposed more attention and help. The first cable, which I obtained, also warns that the lab's work on bat coronaviruses and their potential human transmission represented a risk of a new SARS-like pandemic.

"During interactions with scientists at the WIV laboratory, they noted the new lab has a serious shortage of appropriately trained technicians and investigators needed to safely operate this high-containment laboratory," states the Jan. 19, 2018, cable, which was drafted by two officials from the embassy's environment, science and health sections who met with the WIV scientists. (The State Department declined to comment on this and other details of the story.)

Global Opinions writer Josh Rogin has obtained a 2018 U.S. diplomatic cable urging Washington to better support a Chinese lab researching bat coronaviruses. (Joshua Carroll, Kate Woodsome, Josh Rogin/The Washington Post)

The Chinese researchers at WIV were receiving assistance from the Galvesto National Laboratory at the University of Texas Medical Branch and other U.S. organizations, but the Chinese requested additional help. The cables argued that the United States should give the Wuhan lab further support, mainly because its research on bat coronaviruses was important but also dangerous.

As the cable noted, the U.S. visitors met with Shi Zhengli, the head of the research project, who had been publishing studies related to bat coronaviruse for many years In November 2017, just before the U.S. officials' visit, Shi's team had<u>published researchshowing</u> that horseshoe bats they had collected from a cave in Yunnan province were very likely from the same bat population that spawned the SARS coronavirus in 2003.

<u>Sign up for our Coronavirus Updates newsletter to track the outbreak.</u> All <u>stories linked in the newsletter are free to access</u>.

"Most importantly," the cable states, "the researchers also showed that various SARS-like coronaviruses can interact with ACE2, the human receptor identified for SARS-coronavirus. This finding strongly suggests that SARS-like coronaviruses from bats can be transmitted to humans to cause SARS-like diseases. From a public health perspective, this makes the continued surveillance of SARS-like coronaviruses in bats and study of the animal-human interface critical to future emerging coronavirus outbreak prediction and prevention."

The research was designed to prevent the next SARS-like pandemic by anticipating how it might emerge. But even in 2015, otheirentists <u>questioned</u> whether Shi's team was taking unnecessary risks. In October 2014, the U.S. government haid a moratorium funding of any research that makes a virus more deadly or contagious, known as "gain-of-function" experiments.

As <u>many have pointed ou</u>there is no evidence that the virus now plaguing the world was engineered; scientists largely agree it came from animals. But that not the same as saying it didn't come from the lab, which spent years testing bat coronaviruses in animals, said Xiao Qiang, a research scientist at the School of Information at the University of California at Berkeley.

"The cable tells us that there have long been concerns about the possibility of the threat to public health that came from this lab's research, if it was not bein adequately conducted and protected," he said.

There are similar concerns about the nearby Wuhan Center for Disease Control and Prevention lab, which operates at biosecurity level 2, a level significantly less secure than the level-4 standard claimed by the Wuhan Insititute of Virology lab, Xiao said. That's important because the Chinese government still refuses to answer basic questions about the origin of the novel coronavirus while suppressing any attempts to examine whether either lab was involved.

Sources familiar with the cables said they were meant to sound an alarm about the grave safety concerns at the WIV lab, especially regarding its work with be coronaviruses. The embassy officials were calling for more U.S. attention to this lab and more support for it, to help it fix its problems.

"The cable was a warning shot," one U.S. official said. "They were begging people to pay attention to what was going on."

No extra assistance to the labs was provided by the U.S. government in response to these cables. The cables began to circulate again inside the administration over the past two months as officials debated whether the lab could be the origin of the pandemic and what the implications would be for the U.S. pandemic response and relations with China.

Inside the Trump administration, many national security officials have long suspected either the WIV or the Wuhan Center for Disease Control and Prevention lab was the source of the novel coronavirus outbreakording to the New York Times, the intelligence community has provided no evidence to confirm this. But one senior administration official told me that the cables provide one more piece of evidence to support the possibility that the pandemic is the result of a lab accident in Wuhan.

"The idea that it was just a totally natural occurrence is circumstantial. The evidence it leaked from the lab is circumstantial. Right now, the ledger on the side of it leaking from the lab is packed with bullet points and there's almost nothing on the other side," the official said.

As my colleague David Ignatiumoted, the Chinese government's original story — that the virus emerged from a seafood market in Wuhan — is shaky. Research by Chinese experts published<u>time Lance</u>tin January showed the first known patient, identified on Dec. 1, had no connection to the market, nor did more than one-third of the cases in the first large cluster. Also, the market didn't sell bats.

<u>The Opinions section is looking for stories of how the coronavirus has</u> <u>affected people of all walks of life. Write to us.</u>

Shi and<u>other WIV researcher</u>have<u>categorically denie</u>dhis lab was the origin for the novel coronavirus. On Feb. 3, her team was the fir<u>stubicly</u> report the virus known as 2019-nCoV was a bat-derived coronavirus.

The Chinese government, meanwhile, has put a total lockdown on information related to the virus origins. Beijing has yet to provide U.S. experts with sample of the novel coronavirus collected from the earliest cases. The Shanghai lab that published the novel coronavirus genome on Jan. 11 was quickly shut down by authorities for "rectification." Several of the total journalists

who reported on the spread early on have disappeared.

On Feb. 14, Chinese President Xi Jinpingled for a new biosecurity law to be accelerated. On Wednesda <u>CNN reported</u> the Chinese government has placed severe restrictions requiring approval before any research institution publishes anything on the origin of the novel coronavirus.

The origin story is not just about blame. It's crucial to understanding how the novel coronavirus pandemic started because that informs how to prevent the next one. The Chinese government must be transparent and answer the questions about the Wuhan labs because they are vital to our scientific understanding of the virus, said Xiao.

We don't know whether the novel coronavirus originated in the Wuhan lab, bu the cable pointed to the danger there and increases the impetus to find out, h said.

"I don't think it's a conspiracy theory. I think it's a legitimate question that needs to be investigated and answered," he said. "To understand exactly how this originated is critical knowledge for preventing this from happening in the future."

Read this piece in Chinese

Read this piece in Spanish

David Ignatius: How did covid-19 begin? Its initial origin story is shaky.

Marc A. Thiessen: China should be legally liable for the pandemic damage it has done

We need smart solutions to mitigate the coronavirus's impact. Here23re

<u>Michael L. Barnett and David C. Grabows&bvid-19 is ravaging nursing</u> <u>homes. We're getting what we paid for.</u>

Megan McArdle: Why the lockdown skeptics are wrong

Xinyan Yu: My hometown showed us how a pandemic begins. Could it also show us how one ends?

China Lab In Focus Of Coronavirus Outbreak

Don Reisinger 05-35pm EDT



People wearing face masks wait to buy roasted duck at a restaurant in Wuhan, China's central Hut[e] AFP via Getty Images

For months, anyone who said the new SARS coronavirus might have come or of a virology research lab in Wuhan, China was dismissed as a right wing xenophobe.

When Zero Hedge — a financial news website whose comment section certainly fits the right wing stereotype — first put out its own bombastic version of the bat-borne virus escaping a research lab, they were banned from

Twitter.

FOX host Tucker Carlson starting banging this drum last week.

But on Tuesday, the narrative flipped. It's no longer a story shared by China bears and President Trump fans. Today, Josh Rogin, who is said to be as plugged into the State Department as allyashington Postcolumnist, was shown documents dating back to 2015 revealing how the U.S. government was worried about safety standards at that Wuhan lab. In fact, they were worried that one day, one of these experiments — including the one on bat coronaviruses — could escape and become a global nightmare.

In a best case scenario, Rogin's reveal may ultimately get China to cooperate more in regards to the origins of the virus, setting the table for better drugs to mitigate or even cure the deadly COVID-19. At the very least, for a governmer that likes to save face, the fact that the U.S. government helped build and function the Wuhan virology lab in question should be enough for China to open that info vault to scientists at the World Health Organization.

Washington Pos**Opinion | State Department cables warned of safety** issues at Wuhan lab studying bat coronaviruses

"I don't think it's a conspiracy theory. I think it's a legitimate question that needs to be investigated and answered," Xiao Qiang, a research scientist at the School of Information at the University of California at Berkeley told Rogin "To understand exactly how this originated is critical knowledge for preventing this from happening in the future."

China has not been forthcoming about the new SARS coronavirus origins. They're not being entirely transparent, despite being heralded as such by some leaders. An example of that secrecy from Rogin:

"In January 2018, the U.S. Embassy in Beijing took the unusual step of repeatedly sending U.S. science diplomats to the Wuhan Institute of Virology (WIV), which had in 2015 become China's first laboratory to achieve the highest level of international bioresearch safety (known as BSL-4). WIV issued a news release in

English about the last of these visits, which occurred on March 27, 2018. The U.S.

delegation was led by Jamison Fouss, the



A medical worker cleans up, Wuhan, Hubei Province, China, April 14, 2020. Tomorrow, leishenshan... [+]

Barcroft Media via Getty Images

consul general in Wuhan, and Rick Switzer, the embassy's counselor of environment, science, technology and health. Last week, WIV<u>erased</u> that statement from its website, though it remains archived

on the Internet."

Worth noting, at least one young researcher from the labluang Yanling— a graduate studentrumored to be patient zero— was scrubbed from the lab's website.

The first, mysterious samples from infected individuals arrived at Wuhan Institute of Virology on December 30, 2019.

According to the Scientific American magazine, Shi Zhengli, a renown bat scientist in China, was told by the Institute's director that the Wuhan Center fo Disease Control and Prevention — modeled after our own CDC — had detected a novel coronavirus in two hospital patients. They were suffering fror an odd pneumonia. They wanted her laboratory to investigate because the virus belonged to the same family of bat-borne viruses that caused SARS, a disease that — by comparison — only infected 8,100 people and killed just

under 800 in an 8 month period in 2002-03.

"I had never expected this kind of thing to happen in Wuhan, in central China, she was quoted as saying by cientific American on March 1 Her studies had shown that the southern, subtropical areas of Guangdong, Guangxi and Yunnan had the greatest risk of coronaviruses jumping to humans from animals—particularly bats, a known reservoir for many viruses. If bat coronaviruses were the culprit, she recalled to Scientific American, "could they have come from our lab?"

She has since promised the world that it did not come from her lab, though how she would know that for sure is unknown. We don't know where she is. If she is making the media rounds on Chinese television, few in the U.S. would believe her at this point.

Her research on bat coronaviruses goes back to 2015. Herenis published in <u>2015</u> in Nature magazine. There is a lot of information about this new SARS, yet the world still seems stuck in the unknowns.

The U.S. government helped build and fund Wuhan virology labs. The thinking was that it was important for China to get up to par in the global life sciences. was already a known center of previous outbreaks. Investing there and educating them on international safety standards was just preventative medicine.

Rogin's reporting suggests that government officials were well aware of the research being conducted in the lab on bat coronaviruses and were worried that the lab still had sub-par safety standards.

Rogin writes that, "What the U.S. officials learned during their visits concerned them so much that they dispatched two diplomatic cables categorized as Sensitive But Unclassified back to Washington. The cables warned about safety and management weaknesses at the WIV lab and proposed more attention and help. The first cable, which I obtained, also warns that the lab's work on bat coronaviruses and their potential human transmission represented a risk of a new SARS-like pandemic."



Rogin's article probably stemmed from conversations with someone inside the State progress on a vaccine at the Academy of Department boiling at the rim over many we kisary ... [+] as the U.S. faces a "stop the world" moment^{Xinhua News Agency/Getty Images} because of this pandemic.

Over the weekend, the Chinese government banned academic and other research institutions from publishing its research on coronaviruses on their websites.

The thinking there is, perhaps, that people in the U.S. and Europe are using those studies to place blame on the Chinese government. China has been working overtime to convince people that questioning the origin of the disease is racist.

*The Washington Post*story today brings the possibility of a lab leak into the mainstream. It moves the needle on getting a clearer handle on the origin of the virus, and that could eventually lead to more cooperation between the U.S and China in making sure this does not happen again.

7 Of The Best Gaming Chairs For The Serious Gamer



<u>Shopping</u>

I write about technology and video games for Forbes Finds.

Forbes and/or the author may earn a commission on sales made from links or this page.

If you've been playing video games all this time without cushioning yourself within the comforting confines of a bespoke gaming chair, you're missing out. Gaming chairs are designed to offer a supportive and cozy experience while looking right at home alongside your gaming PC or console.

With gaming chairs, you'll find seats that are typically comfortable, look good and offer a variety of color and material options. Maintaining a good posture while sitting for long periods is of paramount importance, and these chairs wil help you do just that. The following were selected as some of the best gaming chairs due to their build quality, support and comfort, as well as style, looks and any additional features. They are also all reasonably priced for what they offer.

Vertagear Racing Series S-Line SL4000 Gaming Chair Black/Blue Edition





Walmart

Vertagear Racing Series S-Line SL4000 Gaming Chair Black/Blue Edition

450

The Vertagear S-Line SL4000 is built for comfort. The chair has supportive padding, which is perfect for gamers who want to game for multiple hours in a single session. The chair is easy to assemble too — one person can put it together within 30 minutes or so.

On the bottom of the chair, there are custom Penta RS1 casters, which are coated with PU for a soft and smooth gliding experience on the chair, so moving around shouldn't feel bumpy.

The chair is a little expensive depending on the color you get, but it's still a great choice and should create an awesome gaming experience.

Noblechairs Epic Gaming Chair



Amazon

Noblechairs Epic Gaming Chair

419

The Noblechairs Epic is an excellent gaming chair that comes in your choice (

PU leather, NAPPA leather or real leather. It has air gaps at the top to improve airflow to help keep you cool and is built with ergonomics in mind, so you can sit more comfortably. In fact, Noblechairs said that the chairs will conform to the shape of your back and has obtained international certifications for the design.

Like the Secret Lab Omega, the Noblechairs Epic has a tilting mechanism tha will allow you to lock it into place wherever you see fit. That allows you to obtain the perfect recline while you're playing games and dramatically enhances the broader experience. It even comes with what Noblechairs calls 4D armrests that let you adjust their height, depth, width and angle to maximize comfort.

Secretlab Omega 2020 Prime 2.0 PU Leather LCS Gaming Chair



Amazon

Secretlab Omega 2020 Prime 2.0 PU Leather LCS Gaming Chair

350

If you like your gaming chair to look a little more refined, a little less colorful and more demure, then the SecretLab Omega is a great choice. Not only is it competitively priced, but it offers heavy discounts if you shop directly, whether you opt for the more affordable PU leather, fabric covering or even its more premium leather option, though that does come at an added cost.

Updated in 2020, the Omega is the mid-size option that SecretLab offers, fitting everyone up to and below 5'11. There are larger and smaller offerings fithose who fall outside the standard height and weight range though, with all shapes and sizes catered to.

Whichever size you opt for, you'll be able to enjoy the Omega's built-in lumbar support (no pillow required), durable armrests and even a gel-lined neck pillov to help keep you cool during the most intense of gaming sessions.

GTRACING Gaming Chair Racing Chair





Amazon

GTRACING Gaming Chair Racing Chair

156

It might not have the catchiest of names, but the GTRacing Pro GTF88 is an excellent gaming chair at an even more excellent price. Reduced to under \$150 at the time of writing, it's supremely affordable when compared with some of its contemporaries, and though it doesn't have the most high-end of feature sets, it's still a great gaming chair that will both support and comfort you no matter what game you're playing and for how long.

With a sturdy metal frame and ergonomic design, your back, shoulders and arms are all well supported, making sure that you don't develop poor posture habits, the bane of any gamer. That includes pillows for lumbar support and headrest, each of which — and the chair itself — are packed with high-density foam for a superior seating experience.

You can also customize the chair to your heart's desire, with options for swive reclining, rocking and height adjustment. Even the armrests can be rotated an height adjusted.

Available in a variety of colors and coated in 100 percent Grade A PU leather this racing-inspired seat will be a great addition to your gaming arsenal at an affordable price.

Corsair CF-9010029-WW T3 RUSH Gaming Chair



Newegg

Corsair CF-9010029-WW T3 RUSH Gaming Chair

424

Corsair might be most well known for starting the RGB revolution on PC components, but it also makes fantastic gaming chairs; particularly of the mesh fabric kind. Its T3 Rush is the latest generation of gaming chair from the component company and it's only improved on what came before.

Designed to help alleviate heat buildup that is all too commonplace on some gaming chairs (particularly with PU leather) the T3 Rush is covered entirely in soft fabric that makes it breathable, comfortable and soft to the touch.

With included neck cushion and memory foam lumbar support, the T3 Rush sacrifices nothing in its goal to improve comfort and support. Supremely adjustable, you can change the angle of the seat until it's practically a bed, sit straight up, tweak the height and even adjust the orientation of the armrests through four dimensions to make your T3 look and feel exactly how you like it

Arozzi Verona Junior Gaming Chair for Kids



Amazon

Arozzi Verona Junior Gaming Chair for Kids

249

Not everyone is as hulking as their gaming avatars, and not everyone who needs a gaming chair is an adult. The Arozzi Verona Junior gaming chair is designed for growing gamers and those with a smaller than average physical footprint, with a maximum weight of just 130lbs. But by catering to such a niche, it offers a fantastic experience specifically tailored to that body type.

Ergonomically designed for a healthy posture, the Verona Junior enjoys both lumbar and headrest pillows, as well as armrests that can be tweaked to the exact position you need them to be in. You can rotate them, or adjust them up and down, though there are no lateral movement options.

Available in a variety of color options and with a comfortable, easy-to-clean pleather exterior, the Verona Junior is a fantastic gaming chair for a growing gamer or someone with a slighter build.

Nitro Concepts S300 EX Gaming Chair



Amazon

NITRO CONCEPTS S300 EX Gaming Chair

300

Designed to be its most comfortable gaming chair yet, Nitro Concepts' S300

EX builds on its already sterling pedigree for gaming chair production, with a few new additions. Integrating its new Health Enhancing Adjustment Technology, or H.E.A.T., it leverages lumbar and head support pillows for individual adjustment to the unique contours of your body. They're backed up by cooling holes in the neck-rest, making sure that even with the nylon seat-coating, you'll never get too hot during intense play.

They're built atop a steel frame for additional support, which can be leaned back, rocked, height adjusted and rotated, while the armrests can move up, down, forward and backwards, letting you make this gaming chair just right for your particular seating habits. It's also available in four stylish color options, each with color matching stitching and attractive accents.

Don't want something gaudy? Nitro Concepts has you covered too. The Stealth color option makes everything black, letting your gaming chair blend into the background so you can focus on your game and not look like a stereotypical "gamer" while doing it. You might even be able to swing it as an office chair upgrade.



I'm a freelance technology, video game, and entertainment journalist. I've bee writing about the world of technology, video games, and entertainment for the last decade.

• • •

The Trail Leading Back to the Wuhan Labs

Jim Geraghty April 3, 2020 1520 PM



Medical workers in protective suits attend to a patient inside an isolated ward of the Wuhan Red Cross Hospital in Wuhan, the epicenter of the novel coronavirus outbreak, in Hubei Province, China, February 16, 20²⁰/₀ *Dhina Daily via Reuters*)

There's no proof the coronavirus accidentally escaped from a laboratory but we can't take the Chinese government's denials at face value.

NRPLUS MEMBERt is understandable that many would be wary of the
notion that the origin of the coronavirus could be
discovered by somelocumentary filmmakewho
used to live in China. Matthew Tye, who creates YouTube videostends he
has identified the source of the coronavirus
and a great deal of the
information that he presents, obtained from public records posted on the

Internet, checks out.

The Wuhan Institute of Virology in China indeed posted a job opeoing

November 18, 2019, "asking for scientists to come research the relationship between the coronavirus and bats."

WUHAN IN	引えたほん 本 石 元 可 STITUTE OF VIROLOGY, CAS	Chinese version Englis State Key Department N
Home organization institutions set r	search teams research science research the cooperation of international graduate Party garden	journals Information
Today is: Thursday, April 2, 2020	────────────────────────────────────	推 索 高级搜索
Research System	Your present location: Home >> Recruitment	
Center for Molecular Virology and	Becruitment	
Pathology	Postdoctoral Recruitment for Shi Zhengli Discipline Group of Wuhan Institute of Virology	[2019-12-24]
Analytical Microbiology and	Postdoctoral Recruitment Notice of Liu Zhai Discipline Group, Wuhan Institute of	Virology [2019-11-29]
Nanobiology	Postdoctoral Recruitment Notice of Zhou Peng's Discipline Group of Wuhan Institute of	Virology [2019-11-18]
Research Center for Microbial	Postdoctoral Recruitment for Yuan Zhiming Discipline Group of Wuhan Institute of Virology	(2019-11-14)
Resources and Bioinformatics	Recruitment of Postdoctoral Wuhan Institute of Virology, Chinese Academy of Sciences in 2019	[2019-11-13]Fellows of
Emerging Infectious Diseases	Recruitment of the Department of Viral Genome Replication Structural Biology	(2020-03-21)
Research Center	Intensive recruitment notice of Wuhan Institute of Virology, Chinese Academy of Sciences in the	fourth quarter of 2019
Feature Mone >>>	(closed)	
	0	[2019-11-25]

The <u>Google translation of the job posting</u>: iSTaking bats as the research object, I will answer the molecular mechanism that can coexist with Ebola and SARS- associated coronavirus for a long time without disease, and its relationship with flight and longevity. Virology, immunology, cell biology, and multiple omics are used to compare the differences between humans and other mammals." ("Omics" is a term for a subfield within biology, such as genomics or glycomics.)

PI Introduction:

Peng Zhou, Ph.D., Researcher, Wuhan Institute of Virology, Chinese Academy of Sciences, and Leader of Bat Virus Infection and I mmunization. He received his PhD in Wuhan Virus Research Institute in 2010 and has worked on bat virus and immunology in Austr alia and Singapore. In 2009, he took the lead in starting the research on the immune mechanism of bat long-term carrying and trans mitting virus in the world. So far, he has published more than 30 SCI articles, including the first and corresponding author's Nature, Cell Host Microbe and PNAS. At present, research on bat virus and immunology is continuing, and it has received support from the National Excellent Youth Fund, the Pilot Project of the Chinese Academy of Sciences, and the Major Project of the Ministry of Science and Technology.

The main research directions of the research group:

Taking bats as the research object, I will answer the molecular mechanism that can coexist with Ebola and SARS- associated corona virus for a long time without disease, and its relationship with flight and longevity. Virology, immunology, cell biology, and multipl e omics are used to compare the differences between humans and other mammals.

On December 24, 2019, the Wuhan Institute of Virologysted a second job posting. The translation of that posting includes the declaration, "long-term research on the pathogenic biology of bats carrying important viruses has confirmed the origin of bats of major new human and livestock infectious diseases such as SARS and SADS, and a large number of new bat and roder new viruses have been discovered and identified."

PI Introduction

Zhengli Shi, Ph.D., Researcher, Leader of Emerging Virus Group, Wuhan Institute of Virology, Chinese Academy of Scien ces, Director of Emerging Infectious Disease Research Center of Wuhan Institute of Virology, Chinese Academy of Scienc es, Editor-in-Chief, Virologica Sinica. Long-term research on the pathogenic biology of bats carrying important viruses h as confirmed the origin of bats of major new human and livestock infectious diseases such as SARS and SADS, and a larg e number of new bat and rodent new viruses have been discovered and identified. So far in Nature, Science, Nat Rev Mic robiol, the Cell Host Microbe, Nat Microbiol, PLoS Pathog and other SCI papers published journals 110 over papers, 20 14 onwards for five consecutive years was selected Elsevier "China highly cited scholars' list (Immunology and Microbiol ogy). Has won the " advanced worker " of the Chinese Academy of Sciences, the " May 1 Labor Medal ", Hubei Provinc e has outstanding contributions to young and middle-aged experts, Chinese Academy of Sciences "Excellent Graduate Inst ructor", French Palm Education Knight Medal and other honors. As the first person to complete the research on "Chinese b at carrying important viruses", he won the first prize of the 2017 Hubei Natural Science Award and the second prize of the 2018 National Natural Science Award. Elected to the American Academy of Microbiology in 2019.

Tye contends that that posting meant, "we've discovered a new and terrible virus, and would like to recruit people to come deal with it." He also contends that "news didn't come out about coronavirus until ages after that." Doctors in

Wuhan<u>knew that they were dealing with a cluster of pneumonia cases as</u> <u>December progressed</u>but it is accurate to say that a very limited number of people knew about this particular strain of coronavirus and its severity at the time of that job posting. By December 31, about three weeks after doctors firs noticed the cases, the Chinese government notified the World Health Organization and th<u>eirst media reportsabout a "mystery pneumonia"</u> appeared outside China.

Scientific Americanverifies much of the information we mentions about Shi Zhengli, the Chinese virologist nicknamed "Bat Woman" for her work with that species.

Shi — a virologist who is often called China's "bat woman" by her colleagues because of her virus-hunting expeditions in bat caves over the past 16 years — walked out of the conference she was attending in Shanghai and hopped on the next train back to Wuhan. "I wondered if [the municipal health authority] got it wrong," she says. "I had never expected this kind of thing to happen in Wuhan, in central China." Her studies had shown that the southern, subtropical areas of Guangdong, Guangxi and Yunnan have the greatest risk of coronaviruses jumping to humans from animals —particularly bats, a known reservoir for many viruses. If coronaviruses were the culprit, she remembers thinking, "could they have come from our lab?"

... By January 7 the Wuhan team determined that the new virus had indee caused the disease those patients suffered — a conclusion based on results from polymerase chain reaction analysis, full genome sequencing, antibody tests of blood samples and the virus's ability to infect human lung cells in a petri dish. The genomic sequence of the virus — now officially called SARS-CoV-2 because it is related to the SARS pathogen — was 96 percent identical to that of a coronavirus the researchers had identified in

horseshoe bats in Yunnan, they reported in <u>maper</u> published last month in *Nature*. "It's crystal clear that bats, once again, are the natural reservoir," says Daszak, who was not involved in the study.

Some scientists aren't convinced that the virus jumped straight from bats to human beings, buthere are a few problems with the theory that some other animal was an intermediate transmitter of COVID-ftom bats to humans:

Analyses of the SARSCoV-2 genome indicate a single spillover event, meaning the virus jumped only once from an animal to a person, which makes it likely that the virus was circulating among people before December. Unless more information about the animals at the Wuhan market is released, the transmission chain may never be clear. There are, however, numerous possibilities. A bat hunter or a wildlife trafficker might have brought the virus to the market. Pangolins happen to carry a coronavirus, which they might have picked up from bats years ago, and which is, in one crucial part of its genome, virtually identicas AdRSCoV-2. But no one has yet found evidence that pangolins were at the Wuhan market, or even that venders there trafficked pangolins.

On February 4 — one week before the World Health Organizationided to officially name this virus "COVID-19" the journalCell Research posted a notice written by scientists at the Wuhan Institute of Virology about the virus, concluding, "our findings reveal that remdesivir and chloroquine are highly effective in the control of 2019-nCoV infection in vitro. Since these compounds have been used in human patients with a safety track record and shown to be effective against various ailments, we suggest that they should b assessed in human patients suffering from the novel coronavirus disease." One of the authors of that notice was the "bat woman," Shi Zhengli.

In his YouTube video, Tye focuses his attention one searcher at the Wuhan

Institute of Virologynamed Huang Yanling: "Most people believe her to be patient zero, and most people believe she is dead."

There was enough discussion of rumors about Huang Yanling online in China to <u>spur an official denial</u>On February 16, the Wuhan Institute of Virology denied that patient zero was one of their employees, and interestingly named her specifically: "Recently there has been fake information about Huang Yanling, a graduate from our institute, claiming that she was patient zero in the novel coronavirus." Press accounts quote the institute as saying luang was a graduate student at the institute until 2015, when she left the province and had not returned since. Huang was in good health and had not been diagnosed with disease, it added." None of her publicly available arch papers are dated after 2015.

Your present position: Home >> Notice Wuhan Institute of Virology, Chinese Academy of Sciences Source: Published: 2020-02-16 [Font Size: Tai Zhong small] Recently, false information was circulated on the Internet, saying that our graduate Huang Yanling was the so-called "zero patient" who was first infected with the new crown virus. After verification, our firm solemnly declares as follows: Huang Yanling graduated with a master's degree from our institute in 2015. During her studies, she studied the functions of phage lyase and the broad-spectrum antibacterial activity. She has been working and living in other provinces since graduation. Infection, good health. At this critical moment in the fight against epidemics, related rumors have greatly interfered with our scientific research work. We reserve the right to pursue legal responsibility according to law. Heartfelt thanks to all sectors of society for their care, support and help!

The web page for the Wuhan Institute of Virology's Lab of Diagnostic

Microbiology does indeed still have "Huang Yanling" listed as a 2012 graduate student, and her picture and biography appear to have been recently removed — as have those of two other graduate students from 2013, Wang Mengyue and Wei Cuihua.



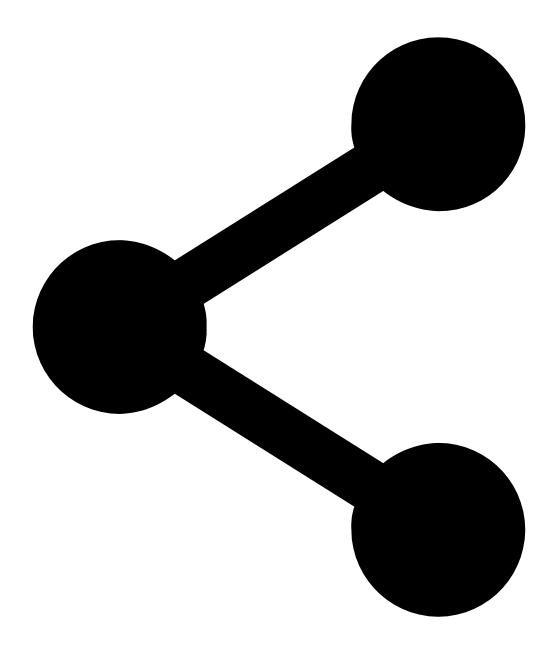
Her name still has a hyperlinkut the linked page is blank the pages for Wang Mengyue and Wei Cuihua are blank as well.

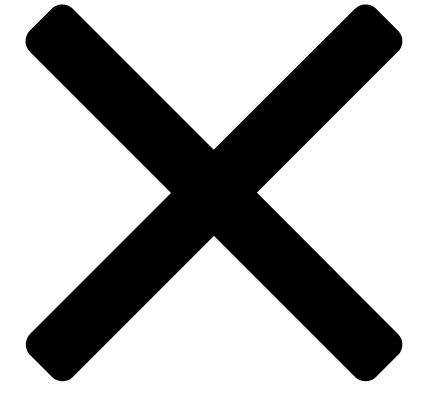


(For what it is worth, the South China Morning Post— a newspaper seenes being generally pro-Beijing—reported on March 13 that "according to the government data seen by the Post, a 55 year-old from Hubei province could have been the first person to have contracted Covid-19 on November 17.")

On February 17, Zhen Shuji, a Hong Kong correspondent the French public-radio service Radio France Internationale, reported hen a reporter from the Beijing News of the Mainland asked the institute for rumors about patient zero, the institute first denied that there was a researcher Huang Yanling, but after learning that the name of the person on the Internet did exis acknowledged that the person had worked at the firm but has now left the office and is unaccounted for."

NOW WATCH: 'Health Officials Warn There Is No Proof Coronavirus Is Impacted By Spring And Summer Weather'





https://www.nationalreview.co m/2020/04/coronavirus-

Tye says, "everyone on the Chinese internet is searching for [Huang Yanling] at the crematorium were perhaps infected as they were not given any information about the virus." (The U.S. Centers for Disease Control and

Prevention says that and ling the body of someone who has died of

<u>coronavirus is safe</u> including embalming and cremation — as long as the standard safety protocols for handing a decedent are used. It's anyone's gues as to whether those safety protocols were sufficiently used in China before the outbreak's scope was known.)

As Tye observes, a public appearance by Huang Yanling would dispel a lot of the public rumors, and is the sort of thing the Chinese government would quickly arrange in normal circumstances — presuming that Huang Yanling wa still alive. Several officials at the Wuhan Institute of Virology issued public statements that Huang was in good health and that no one at the institute has been infected with COVID-19. In any case, the mystery around Huang Yanling may be moot, but it does point to the lab covering up something about her.

China Global Television Network, a state-owned television broadcaster, <u>illuminated another rumo</u>while attempting to dispel it in a February 23 report entitled "Rumors Stop With the Wise":

On February 17, a Weibo user who claimed herself to be Chen Quanjiao, a researcher at the Wuhan Institute of Virology, reported to the public that the Director of the Institute was responsible for leaking the novel coronavirus. The Weibo post threw a bomb in the cyberspace and the public was shocked. Soon Chen herself stepped out and declared that she had never released any report information and expressed great indignation at such identity fraud on Weibo. It has been confirmed that that particular Weibo account had been shut down several times due to the spread of misinformation about COVID-19.

That Radio France Internationale report on February 17 also mentioned the next key part of the Tye's YouTube video. "Xiaobo Tao, a scholar from South China University of Technology, recently published a report that researchers a

Wuhan Virus Laboratory were splashed with bat blood and urine, and then quarantined for 14 days." HK01, another Hong Kong-based news site, <u>reported the same claim</u>

This doctor's name is spelled in English as both "Xiaobo Tao" and "Botao Xiao." From 2011 to 2013, Botao Xiao was astdoctoral research fellow at Harvard Medical School and Boston Children's Hospitand hisbiography is still on the web site of the South China University of Technology.

Botao Xiao	
time: 2017-06-14	
Botao Xiao Email: botaoxiao(at)126.com or botaoxiao2011(at)u.northwestern.cdu Office: B6-405	
Single Molecule Lab: B6-138	
Education Ph.D., Northwestern University, Evanston, IL, USA, 2011 M.S., Chongqing University, Institute of Mechanics, Chinese Academy of Sciences, 2004 B.S., Chongqing University, 2000 Professional Experience 2017-Present: Professor, South China University of Technology 2013-2017: Professor, Huazhong University of Science and Technology 2011-2013: Postdoctoral Research Fellow, Harvard Medical School, Boston Children's Hospital	
Research Description	
The Xiao group study mainly in the fields of cellular and molecular biomechanics, single molecule biophysics and engineering. Current research areas are: protein-ligand interactions, DNA and RNA assembly, high-throughput nanometer measurements and manipulation, mathematical modeling and quantitative analysis. The experimental techniques include: magnetic tweezers, optical tweezers, biomembrane force mode, fluorescent microscory, cenetic enzineering, and chromatography. An noisect example is using high-throughput single	

At some point in February, Botao Xiao posted a research paper onto ResearchGate.net, <u>The Possible Origins of 2019-nCoV coronaviru</u> He is listed as one author, along with Lei Xiao from Tian You Hospital, which is <u>affiliated with the Wuhan University of Science and Technolo</u> by paper was removed a short time after it was posted, but archived images of its pages can be found<u>here</u> and<u>here</u>. The first conclusion of Botao Xiao's paper is that the bats suspected of carrying the virus are extremely unlikely to be found naturally in the city, and despite the stories of "bat soup," they conclude that bats were not sold at the market and were unlikely to be deliberately ingested.

The bats carrying CoV ZC45 were originally found in Yunnan or Zhejiang province, both of which were more than 900 kilometers away from the seafood market. Bats were normally found to live in caves and trees. But th seafood market is in a densely-populated district of Wuhan, a metropolitan [area] of ~15 million people. The probability was very low for the bats to fly to the market. According to municipal reports and the testimonies of 31 residents and 28 visitors, the bat was never a food source in the city, and no bat was traded in the market.

The U.S. Centers for Disease Control and Prevention and the World Health Organization<u>could not confirm</u>if bats were present at the market. Botao Xiao's paper theorizes that the coronavirus originated from bats being used for research at either one of two research laboratories in Wuhan.

We screened the area around the seafood market and identified two laboratories conducting research on bat coronavirus. Within ~ 280 meters from the market, there was the Wuhan Center for Disease Control & Prevention. WHCDC hosted animals in laboratories for research purpose, one of which was specialized in pathogens collection and identification. In one of their studies, 155 bats includin ghinolophus affiniswere captured in Hubei province, and other 450 bats were captured in Zhejiang province. The expert in Collection was noted in the Author Contributions (JHT). Moreover, he was broadcasted for collecting viruses on nation-wide newspapers and websites in 2017 and 2019. He described that he was once by attacked by bats and the blood of a bat shot on his skin. He knew the extreme danger of the infection so he quarantined himself for 14 days. In another accident, he quarantined himself again because bats peed on him.

Surgery was performed on the caged animals and the tissue samples were collected for DNA and RNA extraction and sequencing. The tissue samples and contaminated trashes were source of pathogens. They were only ~280 meters from the seafood market. The WHCDC was also adjacent to the Union Hospital (Figure 1, bottom) where the first group of doctors were infected during this epidemic. It is plausible that the virus leaked around and some of them contaminated the initial patients in this epidemic, though solid proofs are needed in future study.

The second laboratory was ~12 kilometers from the seafood market and belonged to Wuhan Institute of Virology, Chinese Academy of Sciences . . .

In summary, somebody was entangled with the evolution of 2019-nCoV coronavirus. In addition to origins of natural recombination and intermediate host, the killer coronavirus probably originated from a laboratory in Wuhan. Safety level may need to be reinforced in high risk biohazardous laboratories. Regulations may be taken to relocate these laboratories far away from city center and other densely populated places.

However, Xiao has<u>sold the *Wall Street Journal* that he has withdrawn his paper</u>. "The speculation about the possible origins in the post was based on published papers and media, and was not supported by direct proofs," he saic in a brief email on February 26.

The bat researcher that Xiao's report refers to is virologist Tian Junhua, who works at the Wuhan Centre for Disease Control. In 2004, the World Health Organization determined that an outbreak of the SARS virus had been caused by two separate leaks at the Chinese Institute of Virology in Beijing. The Chinese government said that the leaks were a result of "negligence" and the responsible officials had been punished.

In 2017, the Chinese state-owned Shanghai Media Group madevenminute documentaryabout Tian Junhua, entitled "Youth in the Wild: Invisible Defender." Videographers followed Tian Junhua as he traveled deep into caves to collect bats. "Among all known creatures, the bats are rich with various viruses inside," he says in Chinese. "You can find most viruses responsible for human diseases, like rabies virus, SARS, and Ebola. Accordingly, the caves frequented by bats became our main battlefields." He emphasizes, "bats usually live in caves humans can hardly reach. Only in thes places can we find the most ideal virus vector samples."

One of his last statements on the video is: "In the past ten-plus years, we hav visited every corner of Hubei Province. We explored dozens of undeveloped caves and studied more than 300 types of virus vectors. But I do hope these virus samples will only be preserved for scientific research and will never be used in real life. Because humans need not only the vaccines, but also the protection from the nature."

The description of Tian Junhua's self-isolation came from a May 2017 report by Xinhua News Agencycepeated by the Chinese news site JQKNews.com

The environment for collecting bat samples is extremely bad. There is a stench in the bat cave. Bats carry a large number of viruses in their bodies. If they are not careful, they are at risk of infection. But Tian Junhua is not afraid to go to the mountain with his wife to catch Batman.

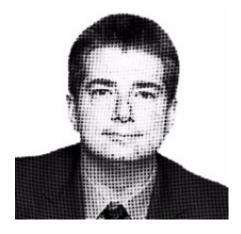
Tian Junhua summed up the experience that the most bats can be caught by using the sky cannon and pulling the net. But in the process of operation, Tian Junhua forgot to take protective measures. Bat urine dripped on him like raindrops from the top. If he was infected, he could not find any medicine. It was written in the report. The wings of bats carry sharp claws. When the big bats are caught by bat tools, they can easily spray blood. Several times bat blood was sprayed directly on Tians skin, but he didn't flinch at all. After returning home, Tian Junhua took the initiative to isolate for half a month. As long as the incubation period of 14 days does not occur, he will be lucky to escape, the report said.

Bat urine and blood caparry viruses. How likely is it that bat urine or blood got onto a researcher at either Wuhan Center for Disease Control & Preventic or the Wuhan Institute of Virology? Alternatively, what are the odds that some sort of medical waste or other material from the bats was not properly disposed of, and that was the initial transmission vector to a human being?

Virologists have beenrehemently skeptical of the theory that COVID-19 was engineered or deliberately constructed in a laborate the director of the National Institutes of Health hasritten that recent genomic research "debunks such claims by providing scientific evidence that this novel coronavirus arose naturally." And none of the above is definitive proof that COVID-19 originated from a bat at either the Wuhan Center for Disease Control & Prevention or the Wuhan Institute of Virology. Definitive proof would require much broader access to information about what happened in those facilities in the time period before the epidemic in the city.

But it is a remarkable coincidence that the Wuhan Institute of Virology was researching Ebola and SARS-associated coronaviruses in bats before the pandemic outbreak, and that in the month when Wuhan doctors were treating the first patients of COVID-19, the institute announced in a hiring notice that "a large number of new bat and rodent new viruses have been discovered and identified." And the fact that the Chinese government spent six weeks insisting that COVID-19 could not be spread from person to person means that its denials about Wuhan laboratories cannot be accepted without

independent verification.



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The possible origins of 2019-nCoV coronavirus

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The 2019-nCoV coronavirus has caused an epidemic of 28,060 laboratory-confirmed infections in human including 564 deaths in China by February 6, 2020. Two descriptions of the virus published on Nature this week indicated that the genome sequences from patients were 96% or 89% identical to the Bat CoV ZC45 coronavirus originally found in *Rhinolophus affinis* ^{1,2}. It was critical to study where the pathogen came from and how it passed onto human.

An article published on The Lancet reported that 41 people in Wuhan were found to have the acute respiratory syndrome and 27 of them had contact with Huanan Seafood Market³. The 2019-nCoV was found in 33 outof 585 samples collected in the market after the outbreak. The market was suspicious to be the origin of the epidemic, and was shut down according to the rule of quarantine the source during an epidemic.

The bats carrying CoV ZC45 were originally found in Yunnan or Zhejiang province, both of which were more than 900 kilometers away from the seafcod market. Bats were normally found to live in caves and trees. But the seafood market is in a densely-populated district of Wuhan, a metropolitan of ~15 million people. The probability was very low for the bats to fly to the market. According to municipal reports and the testimonies of 31 residents and 28 visitors, the bat was never a food source in the city, and no bat was traded in the market. There was possible natural recombination or intermediate host of the coronavirus, yet little proof has been reported.

Was there any other possible pathway? We screened the area around the seafood market and identified two laboratories conducting research on bat coronavirus. Within ~280 meters from the market, there was the Wuhan Center for Disease Control & Prevention (WHCDC) (Figure 1, from Baidu and Google maps). WHCDC hosted an imals in laboratories for research purpose, one of which was specialized in pathogens collection and identification ⁴⁻⁶. In one of their studies, 155 bats including *Rhinolophus affinis* were captured in Hubei province, and other 450 bats were captured in Zhejiang province ⁴. The expert in collection was noted in the Author Contributions (JHT). Moreover, he was broadcasted for collecting viruses on nation-wide newspapers and websites in 2017 and 2019 ^{7,8}. He described that he was once by attacked by bats and the blood of a bat shot on his skin. He knew the extreme danger of the infection so he quarantined himself for 14 days ⁷. In another accident, he quarantined himself again because bats peed on him. He was once thrilled for capturing a bat carrying a live tick ⁸.

Surgery was performed on the caged animals and the tissue sampl es were collected for DNA and RNA extraction and sequencing ^{4 5}. The tissue samples and contaminated trashes were source of pathogens. They were only ~280 meters from the seafood market. The WHCDC was also adjacent to the Union Hospital (Figure 1, bottom) where the first group of doctors were infected during this epidemic. It is plausible that the virus leaked around and some of them contaminated the initial patients in this epidemic, though solid proofs are needed in future study.

The second laboratory was ~12 kilometers from the seafood market and belonged to Wuhan Institute of Virology, Chinese Academy of Sciences ^{1, 9, 10}. This laboratory reported that the Chinese horseshoe bats were natural reservoirs for the severe acute respiratory syndrome coronavirus (SARS-CoV) which caused the 2002-3 pandemic ⁹. The principle investigator participated in a project which generated a chimeric virus using

the SARS-CoV reverse genetics system, and reported the potential for human emergence ¹⁰. A direct speculation was that SARS-CoV or its derivative might leak from the laboratory.

In summary, somebody was entangled with the evolution of 2019-nCoV coronavirus. In addition to origins of natural recombination and intermediate host, the killer coronavirus probably originated from a laboratory in Wuhan. Safety level may need to be reinforced in high risk biohazardous laboratories. Regulations may be taken to relocate these laboratories far away from city center and other densely populated places.

Contributors

BX designed the comment and performed literature search. All au thors performed data acquisition and analysis, collected documents, draw the figure, and wrote the papers.

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Declaration of interests

All authors declare no competing interests.

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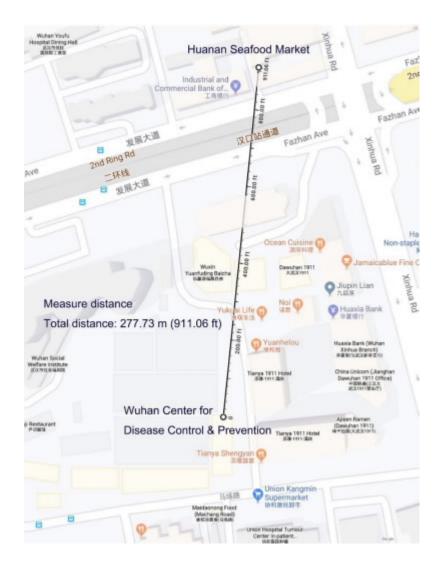


Figure 1. The Huanan Seafood Market is close to the WHCDC (from Baidu and Google maps).

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Clinical features of patients infected with 2019 novel $\rightarrow \mathcal{W}^{\uparrow}$ coronaviruin Wuhan China

Chaolin Huangeminulange, Xingwang Li*, Lili Ren*, Jianping Zhaoge Li Zhaogu ohui Fan, Jiuyang Xu, Xiaoying Gu, ZhenshufthenoTinoYu Jiaan XhauahWe WeniuahWu, Xuelei XhaenYin, Hui Li, Min haun Xiao, Hoftano LiGuo, Jungang Xie, Guangf Mang, Rongmeng Jiang, Zhan @ the Dig Jin, Jian Mengt, BiDaot

Summary

Background recentclusterof pneumoniacases in Wuhan, China, was caused by a novel betacoronavirus le Lancet 2020: 395: 497-506 2019novecoronavirug2019-nCoVWereportheepidemiologicadlinicallaboratoryandradiologicadharacteristicsPublished Online and treatment and clinical outcomes of these patients. January 24, 2020

MethodsAll patientswith suspecter 2019-n Co Weread mitted o a designate dospital n Wuhan. We prospectively______ collected and analysed at a on patients with laboratory-confirm 20019-nCoVinfection by real-time RT-PCR and next-generatiosequencingDatawereobtained with standardised at a collection forms shared by WHO and the InternationalSevereAcute Respiratory and EmergingInfection Consortiumfrom electronic medical records. on January 30, 2020 Researchers/sodirectlycommunicated with patients or their families to ascertaine pidemiological nd symptom Section ment pages 469 and data.Outcomesverealsocomparedbetweerpatientswhohadbeenadmittedtotheintensivecareunit (ICU) and 470 those who had not.

Finding By Jan 2, 2020, 41 admitted hospitabatients had been identified as having laboratory-confirme 2019-n CoV Jin/in-tanHospitaWuhan, infection.Most of the infected patients were men (30 [73%] of 41); less than half had underlying disease \$13 [32%]), includingdiabetes(eight [20%]), hypertension(six [15%]), and cardiovasculadisease(six [15%]). Median age was 49.0 years(IQR 41.0-58.0). 27 (66%) of 41 patientshad been exposed o Huanan seafood narket. One family cluster Prof W Wu MD. Prof X Xie MD): wasfound.Commonsymptomstonsetofillnesswerefever(40[98%]of41patients)cough(31[76%]),andmyalgiaor fatigue(18 [44%]);lesscommonsymptomswere sputumproductior(11 [28%] of 39), headachethree [8%] of 38), haemoptysigtwo[5%]of 39), and diarrhoea one [3%] of 38). Dyspnoe adevelope in 22 (55%) of 40 patients (median time from illnessonsetto dyspnoe 8 · 0 days[IQR 5 · 0-13 · 0]). 26 (63%) of 41 patients had lymphopenia All 41 patients Respiratory Diseases had pneumoniawith abnormalfindingson chestCT. Complicationsincludedacuterespiratorydistresssyndrome (YWang MD, G Fan MS, X Gu PhD, (12[29%])RNAaemia(six[15%])acutecardiacinjury(five[12%])andsecondarinfection(four[10%]).13(32%)patients wereadmitted to an ICU and six(15%) died. Compared with non-ICU patients ICU patients had higher plasmale vels of IL2, IL7, IL10, GSCF, IP10, MCP1, MIP1A, and TNFa.

Interpretation The 2019-nCo infection cause of lusters of severares pirator in lines as imilar to several cutarespiratory syndromecoronaviruand wasassociate with ICU admission and high mortality. Major gapsin our knowledge of theorigin.epidemiologydurationofhumantransmissionandclinicalspectrumofdiseaseeedfulfilmentbyfuture studies.

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Introduction

Coronaviruses are enveloped non-segmented positivesenseRNA virusesbelonging to the family Coronaviridae and the order Nidovirales and broadly distributed in humans and other mammals.¹ Although most human coronavirus infections are mild, the epidemics of the two betacoronaviruses, severe acute respiratory syndrome coronavirus (SARS-CoV³)⁴ and Middle East respiratory syndrome coronavirus (MERS-CoV)^{6,6} have causedmore than 10000 cumulative casesin the past two decades, with mortality rates of 10% for SARS-OV and 37% for MERS-CoV.⁸ The coronaviruses already identified might only be the tip of the iceberg, with

potentially more novel and severezoonotic events to be revealed.

In December, 2019, a series of pneumonia cases of unknown cause emerged in Wuhan, Hubei, China, with clinical presentations greatly resembling viral pneumonia.9 Deep sequencing analysis from lower respiratory tract samples indicated a novel coronavirus. which was named 2019 novel coronavirus (2019-nCoV). Thus far, more than 800 confirmed cases, including in health-careworkers, have been identified in Wuhan, and several exported cases have been confirmed in other provincesin China, and in Thailand, Japan, South Korea, and the USA¹⁰⁻¹³

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> Correspondentoe Prof Bin Cao, Department of We aim to describeepidemiological, clinical, laboratory, ${}^{{\sf PulmonargandCri\,icaCare}} \ \ and radiological characteristics {\tt treatment}, and outcomes$ MedicineChina-Japar Friendship Hospital, of patients confirmed to have 2019-nCoVinfection, and to Beijing100029China compare the clinical features between intensive care unit

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Prof Jianweilang, NHC Keythis novel coronavirus and its clinical features. Laboratorøf System Biologyof

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Academy of Medical Science collowing the pneumonia cases of unknown cause and Peking Union Medicateported in Wuhan and considering the shared history College, Beijing 100730, Ching of exposure to Huanan seafood market across the (b)(6)

patients, an epidemiological alert was releasedby the local health authority on Dec 31, 2019, and the market wasshut down on Jan1,2020.Meanwhile,59 suspected caseswith fever and dry cough were transferred to a designated hospital starting from Dec 31, 2019. An expert team of physicians, epidemiologists, virologists, and government officials was soon formed after the alert.

Since the cause was unknown at the onset of these emerging infections, the diagnosis of pneumonia of unknown cause in Wuhan was based on clinical characteristics, chest imaging, and the ruling out of common bacterial and viral pathogens that cause pneumonia. Suspected patients were isolated using airborne precautions in the designated hospital, Jin Yintan Hospital (Wuhan, China), and fit-tested N95 masks and airborne precautions for aerosol-generating procedureswere taken. This study was approved by the National Health Commission of China and Ethics Commission of Jin Yin-tan Hospital (KY-2020-01.01). Written informed consent was waived by the Ethics Commission of the designated hospital for emerging infectious diseases.

Research in context

Evidence before this study

27 (66%) of 41 patients had a history of direct exposure to the Human coronaviruses, including hCoV-229E, OC43, NL63Huanan seafood market. The median age of patients was and HKU1, cause mild respiratory diseases. Fatal coronavaliance years (IQR 41.0-58.0), and 13 (32%) patients had underlying infections that have merged in the past two decade are severe disease. All patients had pneumonia. A third of patients were acute respiratory syndrome coronavirus (SARS-CoV) and administration to intensive care units, and six-lidia concentrations Middle East respiratory syndrome coronavirus. We searcheficytokines were recorded in plasma of critically ill patients PubMed and the China National Knowledge Infrastructure infected with 2019-nCoV.

database for articles published up to Jan 11, 2020, using the implications of all the available evidence or "2019-nCoV". No published work about the human infection keywords "novel coronovirus", "2019 novel coronavirus", caused by the 2019 novel coronavirus (2019-nCoV) could be with 2019-nCoV might develop acute respiratory distress identified. syndrome, have a high likelihood of admission to intensive care.

Added value of this study

We report the epidemiological, clinical, laboratory, and radiological characteristics, treatment, and clinical outcomeswifole spectrum and pathophysiology of the new disease. 41 laboratory-confirmed cases infected with 2019-nCoV.

ICU) and non-ICU patients. We hope our study findings

or will inform the global community of the emergenceof

Procedures

Local centres for disease control and prevention collected respiratory, blood, and faeces specimens, then shipped them to designated authoritative laboratories to detect the pathogen (NHC Key Laboratory of Systems Biology of Pathogens and Christophe Mérieux Laboratory, Beijing, China). A novel coronavirus, which was named 2019-n CoV was isolated then from lower respiratory tract specimen and a diagnostic test for this virus was developed soon after that.14 Of 59 suspected cases, 41 patients were confirmed to be infected with 2019-nCoVThe presenceof 2019-nCoVin respiratory specimenswasdetectedby nextgenerationsequencing or real-time RT-PCRmethods. The primers and probe target to envelopegene of CoV were used and the sequenceswere as follows: forward primer 5'-ACTTCTTTTCTTGCTTTCGTGGT-3reverseprimer 5'-GCAGCAGTACGCACACAATC-3' and the probe 5'CY5-CTAGTTACACTAGCCATCCTTACTGC-3'BHQ1. Conditions for the amplifications were 50°C for 15 min, 95°Cfor 3 min, followed by 45 cyclesof 95°Cfor 15s and 60°C for 30 s.

and might die. The cytokine storm could be associated with

disease severity. More efforts should be made to know the

Initial investigations included a complete blood count, coagulationprofile, and serum biochemicaltest (including renal and liver function, creatine kinase, lactatedehydrogenaseand electrolytes) Respiratory specimens including nasaland pharyngealswabs, bronchoalveolarlavagefluid, sputum, or bronchial aspirateswere tested for common viruses, including influenza, avian influenza, respiratory syncytialvirus, adenovirus parainfluenzavirus, SARS-CoV and MERS-CoVusing real-time RT-PCRassavsapproved by the China Food and Drug Administration. Routine bacterial and fungal examinations were also performed.

Given the emergence of the 2019-nCoVpneumonia casesduring the influenza season antibiotics (orally and intravenously) and osetamivir (orally 75 mg twice daily) were empirically administered. Corticosteroid therapy (methylprednisolone 40–120mg per day) was given as a combined regimen if severe community-acquired pneumonia was diagnosed by physicians at the designatedhospital. Oxygensupport (eg, nasal cannula and invasive mechanical ventilation) was administered to patients according to the severity of hypoxaemia. Repeated tests for 2019-nCoVwere done in patients confirmed to have 2019-nCoVinfection to show viral clearancebefore hospital dischargeor discontinuation of isolation.

Data collection

We reviewed clinical charts, nursing records, laboratory findings, and chestx-raysfor all patients with laboratoryconfirmed 2019-nCoVinfection who were reported by the local health authority. The admission data of these patients was from Dec 16, 2019, to Jan 2, 2020. Epidemiological, clinical, laboratory, and radiological characteristics and treatment and outcomes data were obtained with standardised data collection forms (modified case record form for severe acute respiratory infection clinical characterisationshared by WHO and the International Severe Acute Respiratory and Emerging Infection Consortium) from electronic medical records. Two researchers also independently reviewed the data collection forms to double check the data collected. To ascertain the epidemiological and symptom data, which were not available from electronic medical records, the researchers also directly communicated with patients or their families to ascertain epidemiological and symptom data.

Cytokine and chemokine measurement

To characterise the effect of coronavirus on the production of cytokines or chemokines in the acute phase of the illness, plasma cytokines and chemokines (IL1B, IL1RA, IL2, IL4, IL5, IL6, IL7, IL8 (also known as CXCL8), IL9, IL10, IL12p70, IL13, IL15, IL17A, Eotaxin (also known as CCL11), basic FGF2, GCSF (CSF3), GMCSF (CSF2), IFNy, IP10 (CXCL10), MCP1 (CCL2), MIP1A (CCL3), MIP1B (CCL4), PDGFB, RANTES (CCL5), TNFα, and VEGFAweremeasuredusing Human CytokineStandard 27-Plex Assays panel and the Bio-Plex 200 system (Bio-Rad, Hercules, CA, USA) for all patients according to the manufacturer's instructions. The plasma samples from four healthy adults were used as controls for crosscomparison. The median time from being transferred to a designatedhospital to the blood sample collection was 4 days (IQR 2-5).

Detection of coronavirus in plasma

Each80 µL plasmasamplefrom the patients and contacts was added into 240 µL of Trizol LS (10296028;Thermo Fisher Scientific, Carlsbad, CA, USA) in the Biosafety Level3 laboratory.Total RNA was extracted by Direct-zol RNA Miniprep kit (R2050;Zymo research,Irvine, CA, USA) according to the manufacturer's instructions and

50 µL elution was obtained for each sample.5 µL RNA was used for real-time RT-PCR, which targeted the *NP* gene using AgPath-ID One-Step RT-PCR Reagent (AM1005; Thermo Fisher Scientific). The final reaction mix concentration of the primers was500 nM and probe was200 nM. Real-timeRT-PCR wasperformed using the following conditions: 50°C for 15min and 95°C for 3 min, 50 cycles of amplification at 95°C for 10 s and 60°C for 45 s. Since we did not perform tests for detecting infectious virus in blood, we avoided the term viraemia and used RNA aemiainstead. RNA aemiawas defined as a positive result for real-timeRT-PCR in the plasma sample.

Definitions

Acute respiratory distress syndrome (ARDS) and shock were defined according to the interim guidance of WHO

For he International Severe Acute Respiratory and Emerging Infection Consortium–WHO case record form for severe acute respiratory infections see https://isaric.tghn.org/protocols/ severe-acute-respiratoryinfection-data-tools/

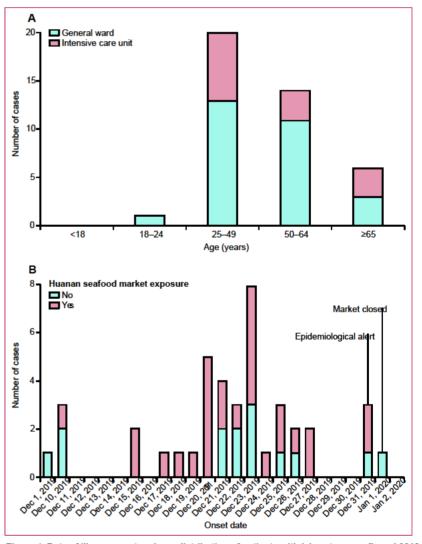


Figure 1: Date of illness onset and age distribution of patients with laboratory-confirmed 2019-nCoV infection

(A) Number of hospital admissions by age group. (B) Distribution of symptom onset date for laboratory-conficases. The Wuhan local health authority issued an epidemiological alert on Dec 30, 2019, and closed the He seafood market 2 days later.

	All patients (n=41)	ICU care (n=13)	No ICU care (n=28	3)p value
Characteristics				
Ageyears	49.0 (41.0–58.0)	49·0 (41·0–61·0)	49·0 (41·0–57·5)	0.60
Sex				0.24
Men	30 (73%)	11 (85%)	19 (68%)	
Women	11 (27%)	2 (15%)	9 (32%)	
Huanan seafood market exposure	27 (66%)	9 (69%)	18 (64%)	0.75
Current smoking	3 (7%)	0	3 (11%)	0.31
Any comorbidity	13 (32%)	5 (38%)	8 (29%)	0.53
Diabetes	8 (20%)	1 (8%)	7 (25%)	0·16
Hypertension	6 (15%)	2 (15%)	4 (14%)	0.93
Cardiovasculdisease	6 (15%)	3 (23%)	3 (11%)	0.32
Chroni o bstructive pulmonarydisease	1 (2%)	1 (8%)	0	0-14
Malignancy	1 (2%)	0	1 (4%)	0.49
Chronidiverdisease	1 (2%)	0	1 (4%)	0.68
Signs and symptoms				
Fever	40 (98%)	13 (100%)	27 (96%)	0.68
Highestemperature,C				0.037
<37.3	1 (2%)	0	1 (4%)	
37-3-38-0	8 (20%)	3 (23%)	5 (18%)	
38.1-39.0	18 (44%)	7 (54%)	11 (39%)	
>39.0	14 (34%)	3 (23%)	11 (39%)	
Cough	31 (76%)	11 (85%)	20 (71%)	0.35
Myalgiærfatigue	18 (44%)	7 (54%)	11 (39%)	0.38
Sputum production	11/39 (28%)	5 (38%)	6/26 (23%)	0.32
Headache	3/38 (8%)	0	3/25 (12%)	0·10
Haemoptysis	2/39 (5%)	1 (8%)	1/26 (4%)	0-46
Diarrhoea	1/38 (3%)	0	1/25 (4%)	0.66
Dyspnoea	22/40 (55%)	12 (92%)	10/27 (37%)	0.0010
Days from illness onset t dyspnoea	o 8·0 (5·0–13·0)	8·0 (6·0–17·0)	6·5 (2·0–10·0)	0-22
Days from first admission to transfer	n 5·0 (1·0–8·0)	8·0 (5·0–14·0)	1.0 (1.0–6.5)	0.0023
Systolic pressure, mm H	gl25-0 (119-0-135-)	0)45.0 (123.0-167.	0)22-0 (118-5-129-	50-018
Respiratory rate >24 breaths per min	12 (29%)	8 (62%)	4 (14%)	0.0023

Data are median (IQR), n (%), or n/N (%), where N is the total number of patients with available data. p valueand cardiovascular disease (six [15%]). comparing ICU care and no ICU care are from x² test, Fisher's exact test, or Mann-Whitney U test. 2019 nCoV 2719(66%) patients had direct exposure to Huanan novel coronavirus. ICU=intensive care unit.

Table 1: Demographics and baseline characteristics of patients infected with 2019-nCoV

for novel coronavirus⁹. Hypoxaemiawasdefined asarterial oxygen tension (PaO₂) over inspiratory oxygen fraction (FIO₂) of lessthan 300mm Hg.¹⁵ Acute kidney injury was identified and classifiedon the basisof the highest serum creatinine level or urine output criteria according to the kidney diseaseimproving global outcomesclassification¹⁶ Secondaryinfection was diagnosed if the patients had clinical symptoms or signs of nosocomial pneumonia or bacteraemiaand wascombined with a positive culture of a new pathogen from a lower respiratory tract specimen (including the sputum, transtrachealaspirates, or bronchoalveolatavagefluid, or from bloodsamplestaken≥48h

after admission)¹⁷ Cardiac injury followed the definition used in our previous study in H7N9 patients.¹⁸ In brief, cardiac injury was diagnosed if serum levels of cardiac biomarkers(eg,troponin I) were above the 99th percentile upper reference limit, or new abnormalities were shown in electrocardiography and echocardiography.

Statistical analysis

Continuous variables were expressed as median (IQR) and compared with the Mann-Whitney U test; categorical variables were expressed as number (%) and compared by χ^2 testor Fisher's exact test between ICU care and no ICU care groups. Boxplots were drawn to describe plasma cytokine and chemokine concentrations.

A two-sided α of less than 0.05 was considered statistically significant. Statistical analyses were done using the SAS software, version 9.4, unless otherwise indicated.

Role of the funding source

The funder of the study had no role in study design, data collection, data analysis, data interpretation, or writing of the report. The corresponding authors had full access all the data in the study and had final responsibility for the decision to submit for publication.

Results

By Jan 2, 2020, 41 admitted hospital patients were identified aslaboratory-confirmed2019-nCo√Infection in Wuhan. 20 [49%])of the 2019-nCo√Infected patients were aged 25–49 years, and 14 (34%) were aged 50–64 years (figure 1A). The median ageof the patients was49 0 years (IQR 410–58 0; table 1). In our cohort of the first 41 patients as of Jan 2, no children or adolescentswere infected. Of the 41 patients, 13(32%) were admitted to the ICU because they required high-flow nasal cannula or higher-level oxygen support measures to correct hypoxaemia. Most of the infected patients were men (30[73%]); less than half had underlying diseases(13[32%]), including diabetes (eight [20%]), hypertension (six [15%]),

^{oV-22919}(66%) patients had direct exposure to Huanan seafoodmarket (figure 1B).Market exposurewassimilar between the patients with ICU care (nine [69%]) and thosewith non-ICU care(18[64%]).The symptom onset date of the first patient identified was Dec 1, 2019.None of his family members developed everor any respiratory symptoms. No epidemiologicallink was found between the first patient and later cases. The first fatal case, who had continuous exposure to the market, was admitted to hospital because of a 7-dayhistory of fever, cough, and dyspnoea5 daysafter illness onset, his wife, a 53-year-oldwoman who had no known history of exposure to the market, also presented with pneumonia and was hospitalised in the isolation ward.

The most common symptoms at onset of illness were fever (40 [98%] of 41 patients), cough (31 [76%]), and myalgia or fatigue (18 [44%]); less common symptoms were sputum production (11 [28%] of 39), headache (three [8%] of 38), haemoptysis(two [5%] of 39), and diarrhoea (one [3%] of 38; table 1). More than half of patients(22[55%]of 40)developeddyspnoea.The median duration from illness onset to dyspnoeawas 8.0 days (IQR 5.0-130). The median time from onset of symptoms to first hospital admission was 7.0 days(4.0-8.0), to shortnessof breath was 8.0 days (5.0-130), to ARDS was 9.0 days(8.0-140), to mechanical ventilation was 10 5 days(7.0-140), and to ICU admissionwas10.5 days (8.0–170; figure 2).

The blood counts of patients on admission showed leucopenia (white blood cell count less than 4×10%L; ten [25%] of 40 patients) and lymphopenia (lymphocyte count <1.0×10⁹/L; 26 [63%] patients; table 2). Prothrombin time and D-dimer level on admission were higher in ICU patients (median prothrombin time 12.2 s [IQR 11.2-13.4]: median D-dimer level 2.4 mg/L [0.6-144])than non-ICU patients (median prothrombin time 10.7 s [9.8–12.1], p=0.012; median D-dimer level 0.5 mg/L [0.3-0.8], p=0.0042). Levels of aspartate aminotransferase were increased in 15 (37%) of 41 patients, including eight (62%) of 13 ICU patients and seven(25%) of 28 non-ICU patients. Hypersensitive troponin I (hs-cTnI) was increased substantially in five patients, in whom the diagnosis of virus-related cardiac injury was made.

Most patients had normal serum levels of procalcitonin on admission(procalcitonin<0.1ng/mL: 27[69%]patients: table 2). Four ICU patients developed secondary infections. Three of the four patients with secondaryinfection had procalcitonin greater than 0.5 ng/mL (0.69 ng/mL, 1.46 ng/mL, and 648 ng/mL).

On admission, abnormalities in chestCT imageswere detectedamong all patients. Of the 41 patients, 40 (98%) had bilateral involvement (table 2). The typical findings of chest CT images of ICU patients on admission were bilateral multiple lobular and subsegmental areas of consolidation (figure 3A). The representativechest CT findings of non-ICU patients showed bilateral groundglass opacity and subsegnental areas of consolidation (figure 3B). Later chest CT images showed bilateral ground-glass opacity whereas the consolidation had been resolved (figure 3C).

Initial plasma IL1B, IL1RA, IL7, IL8, IL9, IL10, basic FGF, GCSF, GMCSF, IFNy, IP10, MCP1, MIP1A, MIP1B, PDGF, TNF α , and VEGF concentrationswere higher in both ICU patients and non-ICU patients than in healthy adults (appendixpp 6-7). Plasmalevels of IL5, IL12p70, IL15, Eotaxin, and RANTES were similar between healthy adults and patients infected with 2019-nCoV Further comparison between ICU and non-ICU patients showed that plasmaconcentrationsof IL2, IL7, IL10, GCSF, IP10, MCP1, MIP1A, and TNFa were higher in ICU patients than non-ICU patients.

All patients had pneumonia. Common complications included ARDS (12 [29%] of 41 patients), followed by

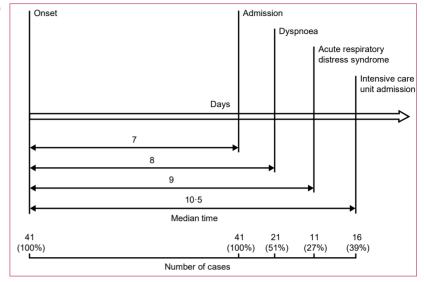


Figure 2: Timeline of 2019-nCoV cases after onset of illness

RNAaemia (six [15%] patients), acute cardiac injury (five [12%]patients), and secondaryinfection (four [10%] patients; table 3). Invasive mechanical ventilation was required in four (10%)patients, with two of them (5%)had refractory hypoxaemiaand received extracorporealmembrane oxygenation as salvagetherapy. All patients were administered with empirical antibiotic treatment, and 38 (93%) patients received antiviral therapy (osetamivir). Additionally, nine (22%) patients were given systematic corticosteroids A comparison of clinical features between patients who received and did not receive systematic corticosteroids is in the appendix (pp 1-5).

As of Jan 22, 2020, 28(68%) of 41 patients have been discharged and six (15%) patients have died. Fitness for discharge was based on abatement of fever for at least 10 days, with improvement of chest radiographic evidenceand viral clearancein respiratory samples from upper respiratory tract.

Discussion

We report here a cohort of 41 patients with laboratoryconfirmed 2019-nCoVinfection. Patients had serious. sometimes fatal, pneumonia and were admitted to the designated hospital in Wuhan, China, by Jan 2, 2020. Clinical presentations greatly resemble SARS-CoV. Patients with severe illness developed ARDS and required ICU admission and oxygentherapy. The time between hospital admission and ARDS was as short See Online for appendix as 2 days. At this stage, the mortality rate is high for 2019-nCoVbecausesix (15%) of 41 patients in this cohort died

The number of deaths is rising quickly. As of Jan 24, 2020, 835 laboratory-confirmed 2019-nCoV infections were reported in China, with 25 fatal cases.Reports have been released of exported cases in many provinces in China, and in other countries;

	All patients (n=41)	ICU care (n=13)	No ICU care (n=28)	p value
White blood cell count10 per L	6·2 (4·1–10·5)	11.3 (5.8–12.1)	5.7 (3.1–7.6)	0-011
<4	10/40 (25%)	1/13 (8%)	9/27 (33%)	0.041
4–10	18/40 (45%)	5/13 (38%)	13/27 (48%)	
>10	12/40 (30%)	7/13 (54%)	5/27 (19%)	
Neutrophil count, 10° per L	5·0 (3·3–8·9)	10·6 (5·0–11·8)	4·4 (2·0–6·1)	0.00069
Lymphocyte count,10° per L	0·8 (0·6–1·1)	0·4 (0·2–0·8)	1.0 (0.7–1.1)	0.0041
<1.0	26/41 (63%)	11/13 (85%)	15/28 (54%)	0.045
≥1.0	15/41 (37%)	2/13 (15%)	13/28 (46%)	
Haemoglobin, g/L	126·0 (118·0–140·0)	122·0 (111·0–128·0)	130·5 (120·0–140·0)	0.20
Platelet count, 140° per L	164·5 (131·5–263·0)	196·0 (165·0–263·0)	149·0 (131·0–263·0)	0-45
<100	2/40 (5%)	1/13 (8%)	1/27 (4%)	0-45
≥100	38/40 (95%)	12/13 (92%)	26/27 (96%)	
Pro hrombinime, s	11·1 (10·1–12·4)	12·2 (11·2–13·4)	10·7 (9·8–12·1)	0.012
Activatedpartialthromboplastintime,s	27.0 (24.2-34.1)	26-2 (22-5-33-9)	27.7 (24.8-34.1)	0.57
D-dimer, mg/L	0·5 (0·3–1·3)	2·4 (0·6–14·4)	<mark>0·5 (0·3–0·8)</mark>	0.0042
Albumin, g/L	31.4 (28.9–36.0)	27.9 (26.3-30.9)	34.7 (30.2-36.5)	0.00066
Alanineaminotransferase//L	32.0 (21.0-50.0)	49·0 (29·0–115·0)	27.0 (19.5–40.0)	0.038
Aspartateaminotransferase/L	34.0 (26.0-48.0)	44·0 (30·0–70·0)	34.0 (24.0-40.5)	0.10
≤40	26/41 (63%)	5/13 (38%)	21/28 (75%)	0.025
>40	15/41 (37%)	8/13 (62%)	7/28 (25%)	
Total bilirubin, mmol/L	11·7 (9·5–13·9)	14·0 (11·9–32·9)	10·8 (9·4–12·3)	0.011
Potassium, mmol/L	4.2 (3.8–4.8)	4.6 (4.0–5.0)	4.1 (3.8–4.6)	0.27
Sodium, mmol/L	139·0 (137·0–140·0)	138.0 (137.0–139.0)	139.0 (137.5–140.5)	0-26
Creatinine, µmol/L	74.2 (57.5-85.7)	79·0 (53·1–92·7)	73.3 (57.5–84.7)	0.84
≤133	37/41 (90%)	11/13 (85%)	26/28 (93%)	0.42
>133	4/41 (10%)	2/13 (15%)	2/28 (7%)	
Creatine kinase, J/L	132·5 (62·0–219·0)	132.0 (82.0-493.0)	133·0 (61·0–189·0)	0-31
≤185	27/40 (68%)	7/13 (54%)	20/27 (74%)	0-21
>185	13/40 (33%)	6/13 (46%)	7/27 (26%)	
Lactatedehydrogenase/L	286·0 (242·0–408·0)	400.0 (323.0-578.0)	281.0 (233.0-357.0)	0.0044
≤245	11/40 (28%)	1/13 (8%)	10/27 (37%)	0.036
>245	29/40 (73%)	12/13 (92%)	17/27 (63%)	
Hypersensitive troponin I, pg/mL	3·4 (1·1–9·1)	3·3 (3·0–163·0)	3.5 (0.7–5.4)	0.075
>28 (99th percentile)	5/41 (12%)	4/13 (31%)	1/28 (4%)	0.017
Procalcitonin, ng/mL	0.1 (0.1–0.1)	0·1 (0·1–0·4)	0·1 (0·1–0·1)	0.031
<0.1	27/39 (69%)	6/12 (50%)	21/27 (78%)	0.029
≥0·1to <0·25	7/39 (18%)	3/12 (25%)	4/27 (15%)	
≥0·25to<0·5	2/39 (5%)	0/12	2/27 (7%)	
≥0.5	3/39 (8%)	3/12 (25%)*	0/27	
Bilateral involvement of chest radiographs	40/41 (98%)	13/13 (100%)	27/28 (96%)	0-68
Cyclehresholdofrespiratoryract	32-2 (31-0-34-5)	31.1 (30.0–33.5)	32·2 (31·1–34·7)	0.39

s comparing ICU care and no ICU care are from χ^2 , Fisher's exp 'N (%), WN re N is the total num ents with ava a. p va or Mann-Whitney U test. 2019-nCoV=2019 novel coronavirus. ICU=intensive care unit. *Complicated typical secondary infec ion during the first hospital sation.

Table 2: Laboratory findings of patients infected with 2019-nCoV on admission to hospital

some health-care workers have also been infected in Wuhan. Taken together, evidence so far indicates human transmission for 2019-nCoVWe are concerned 2019-nCoV onset of fever and respiratory symp-

prevent further spread of the disease in health-care settings that are caring for patients infected with that 2019-nCoV could have acquired the ability for toms should be closely monitored among health-care efficient human transmission.¹⁰ Airborne precautions, workers. Testing of respiratory specimens should be such as a fit-tested N95 respirator, and other personal done immediately once a diagnosisis suspected Serum protective equipment are strongly recommended. To antibodies should be tested among health-careworkers

before and after their exposureto 2019-nCoVfor identification of asymptomatic infections.

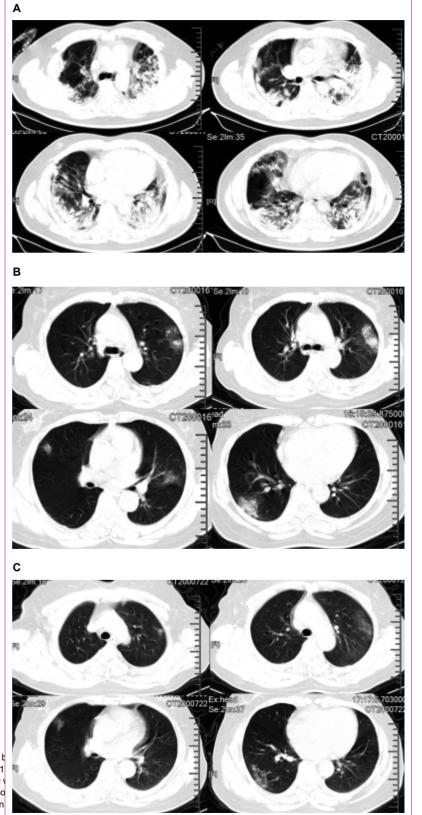
Similarities of clinical featuresbetween2019-n@V and previous betacoronavirusinfections have been noted. In this cohort, most patients presented with fever, dry cough. dvspnoea and bilateral ground-glassopacities on chest CT scans. These features of 2019-nCoVinfection bear some resemblanceto SARS-@V and MERS-CoV infections.^{20,21} However, few patients with 2019-nCoV infection had prominent upper respiratory tract signs and symptoms (eq, rhinorrhoea, sneezing, or sore throat), indicating that the target cells might be locatedin the lower airway. Furthermore, 2019-nCoVpatients rarely developedntestinal signs and symptoms (eg, diarrhoea), whereas about 20-25% of patients with MERS-CoVor SARS-CoVinfection had diarrhoea²¹ Faecal and urine samplesshould betested to exclude a potential alternative route of transmission that is unknown at this stage.

The pathophysiologyof unusually high pathogenicity for SARS-@V or MERS-@V has not been completely understood. Early studies have shown that increased amounts of proinflammatory cytokines in serum (eg, IL1B, IL6, IL12, IFNy, IP10, and MCP1) were associated with pulmonary inflammation and extensive lung damage in SARS patients.22 MERS-CoV infection was also reported to induce increased concentrations of proinflammatory cytokines (IFNy, TNFa, IL15, and IL17)²³ We noted that patients infected with 2019-nCoV also had high amounts of IL1B, IFNy, IP10, and MCP1, probably leading to activated T-helper-1 (Th1) cell responses. Moreover, patients requiring ICU admission had higher concentrationsof GCSF, IP10, MCP1, MIP1A, and TNFa than did those not requiring ICU admission, suggesting that the cytokine storm was associated with disease severity. However, 2019-nCoV infection also initiated increased secretion of T-helper-2(Th2) cvtokines (eq, IL4 and IL10) that suppress inflammation, which differs from SARS-@V infection.22 Further studies are necessaryto characterisethe Th1 and Th2 responsesin 2019-nCoVinfection and to elucidate the pathogenesis. Autopsyor biopsystudieswould be the key to understand the disease.

In view of the high amount of cytokines induced by SARS-CoV^{2:24} MERS-CoV^{5:26} and 2019-nCoVnfections, corticosteroids were used frequently for treatment of patients with severe illness, for possible benefit by reducing inflammatory-induced lung injury. However, current evidence in patients with SARS and MERS

Figure ChesCTimages

(A) Transverse chest CT images from a 40-year-old man showing b multiple lobular and subsegmental areas of consolidation on day 1 symptom onset. Transverse chest CT images from a 53-year-old v showing bilateral ground glass opacity and subsegmental areas of conso on day 8 after symptom onset (B), and bilateral ground-glass opacity on after symptom onset (C).



	All patients (n=41)CU care (n=13)	No ICU care (n=2	8þ value
Duration from illness onset to first admission	7.0 (4.0–8.0)	7.0 (4.0–8.0)	7·0 (4·0–8·5)	0.87
Complications				
Acuterespiratorydistress syndrome	12 (29%)	11 (85%)	1 (4%)	<0.0001
RNAaemia	6 (15%)	2 (15%)	4 (14%)	0-93
Cycl e hresholobf RNAaemia	35·1 (34·7–35·1)	35·1 (35·1–35·1	I)34·8 (34·1–35·4)	0.35
Acute cardiac injury*	5 (12%)	4 (31%)	1 (4%)	0.017
Acute kidney injury	3 (7%)	3 (23%)	0	0.027
Secondary infection	4 (10%)	4 (31%)	0	0.0014
Shock	3 (7%)	3 (23%)	0	0.027
Treatment				
Antiviraltherapy	38 (93%)	12 (92%)	26 (93%)	0-46
Antibiotictherapy	41 (100%)	13 (100%)	28 (100%)	NA
Useof corticosteroid	9 (22%)	6 (46%)	3 (11%)	0.013
Continuous renal replacemenherapy	3 (7%)	3 (23%)	0	0.027
Oxygen support				<0.0001
Nasal cannula	27 (66%)	1 (8%)	26 (93%)	
Non-invasiv e entilationor high-flow nasal cannula	10 (24%)	8 (62%)	2 (7%)	
Invasive mechanical ventilation	2 (5%)	2 (15%)	0	
Invasive mechanical ventilation and ECMO	2 (5%)	2 (15%)	0	
Prognosis				0.014
Hospitalisation	7 (17%)	1 (8%)	6 (21%)	
Discharge	28 (68%)	7 (54%)	21 (75%)	
Death	6 (15%)	5 (38%)	1 (4%)	

Data are median (IQR) or n (%) p values are comparing ICU care and no ICU care 2019-nCoV=2019 nove kinetics of viral load and antibody titres were not available. ICU=intensive care unit. NA=not applicable. ECMO=extracorporeal membrane oxygenation. *Defined as blom in an our study might ICU=intensive care unit. NA=not applicable. ECWO-extraction of the second action of the secon

Table 3: Treatments and outcomes of patients infected with 2019-nCoV

suggeststhat receiving corticosteroidsdid not have an effect on mortality, but rather delayedviral clearance?7-29 Therefore, corticosteroids should not be routinely given systemically, according to WHO interim guidance³⁰ Among our cohort of 41 laboratory-confirmedpatients with 2019-nCoVinfection, corticosteroidswere given to verv few non-ICU cases.and low-to-moderatedose of corticosteroidswere given to less than half of severely ill patients with ARDS. Further evidence is urgently needed to assess whether systematic corticosteroid treatment is beneficial or harmful for patients infected with 2019-nCoV

No antiviral treatment for coronavirusinfection hasbeen proven to be effective. In a historical control study.31 the combination of lopinavir and ritonavir among SARS-CoV patients was associated with substantial clinical benefit (fewer adverse clinical outcomes). Arabi and colleagues initiated a placebo-controlledtrial of interferon beta-1b, lopinavir, and ritonavir among patients with MERS infection in Saudi Arabia.32 Preclinical evidenceshowed

the potent efficacy of remdesivir (a broad-spectrum antiviral nucleotide prodrug) to treat MERS-CoV and SARS-CoVinfections.33,34 As 2019-nCoVis an emerging virus, an effective treatment has not been developedfor diseaseresulting from this virus. Since the combination of lopinavir and ritonavir was already available in the designated hospital, a randomised controlled trial has been initiated quickly to assess the efficacy and safety of combined use of lopinavir and ritonavir in patients hospitalised with 2019-nCoV infection.

Our study has some limitations. First, for most of the 41 patients, the diagnosis was confirmed with lower respiratorytractspecimensand no paired nasophary ngeal swabswere obtained to investigate the difference in the viral RNA detection rate between upper and lower respiratorytract specimens.Serologicaldetectionwasnot done to look for 2019-nCoVantibody rises in 18 patients with undetectableviral RNA. Second with the limited number of cases it is difficult to assesshost risk factors for disease severity and mortality with multivariableadjusted methods. This is a modest-sizedcaseseries of patients admitted to hospital; collection of standardised data for a larger cohort would help to further define the clinical presentation, natural history, and risk factors. Further studies in outpatient, primary care, or community settingsareneededto get a full picture of the spectrum of clinical severity. At the same time, finding of statistical tests and p values should be interpreted with caution, and non-significant p values do not necessarily rule out difference between ICU and non-ICU patients. Third, since the causativepathogen has just been identified,

reported in this cohort. More effort should be made to answer these questions in future studies.

Both SARS-CoV and MERS-CoV were believed to originate in bats, and these infections were transmitted directly to humans from market civets and dromedary camels, respectively25 Extensiveresearchon SARS-CoV and MERS-CoV has driven the discovery of many SARS-likeand MERS-likecoronavirusesin bats. In 2013, Ge and colleagues reported the whole genomes equence of a SARS-likecoronavirusin batswith that ability to use human ACE2 as a receptor, thus having replication potentials in human cells.37 2019-nCoVstill needs to be studied deeply in caseit becomes a global health threat. Reliable quick pathogen tests and feasible differential diagnosis based on clinical description are crucial for clinicians in their first contact with suspected patients. Becauseof the pandemic potential of 2019-nCoVcareful surveillance is essential to monitor its future host adaption, viral evolution, infectivity, transmissibility, and pathogenicity.

Contributors

BC and JW had the idea for and designed the study and had full access to all data in the study and take responsibility for the integrity of the

data and the accuracy of the data analysis. YWa, GF, XG, JiXu, HL, and BC contributed to writing of the report. BC contributed to critical revision of he report. YWa, GF, XG, JiXu, and HL contributed to the statistical analysis. All authors contributed to data acquisition, data analysis, or data interpretation, and reviewed and approved the final version.

Declaratioofinterests

All authors declare no competing interests.

Data sharing

The data that support the findings of this study are available from the corresponding author on reasonable request. Participant data without names and iden ifiers will be made available after approval from the corresponding author and National Health Commission. After publication of study findings, he data will be available for others to request. The research team will provide an email address for communica ion once the data are approved to be shared with others. The proposal with detailed description of study objectives and statistical analysis plan will be needed for evaluation of the reasonability to request for our data. The corresponding author and Na ional Heal h Commission will make a decision based on these materials. Additional materials may also be required during the process.

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- 32 Arabi YM, Alothman A, Balkhy HH, et al. Treatment of Mddle East respiratory syndrome with a combination of lopinavir-ritonavir and interferon-β1b (MIRACLE trial): study protocol for a randomized controlled trial. *Trials* 2018; **19**: 81.

- 33 Sheahan TP, Sims AC, Graham RL, et al. Broad-spectrum antiviral 36 Ge X-Y Li J-L, Yang X-L, et al. Isolation and characterization of a bat GS-5734 inhibits both epidemic and zoonotic coronaviruses. Sci Transl Med 2017; 9: eaal3653.
- 34 Sheahan TP, Sims AC, Leist SR, et al. Comparative herapeutic efficacy of remdesivir and combina ion lopinavir, ritonavir, and interferon beta against MERS-CoV. *bt* Commun2020; **11**222.
- 35 Cui J, Li F, Shi Z-L. Origin and evolution of pathogenic coronaviruses. Nat Rev Microbiol 20119; 181-92.
- SARS-like coronavirus hat uses the ACE2 receptor. Nature 2013; **503:** 535–38.
- Wang M, Hu Z. Bats as animal reservoirs for the SARS coronavirus: hypothesis proved afer 10 years of virus hun ing. *Virol Sin* 2013; **28:** 315–17. 37

DEPARTMENT OF HEALTH & HUMAN SERVICES



Public Health Service

National Institutes of Health National Institute of Allergy and Infectious Diseases Bethesda, Maryland 20892

24 April 2020

Drs. Aleksei Chmura and Peter Daszak EcoHealth Alliance, Inc. 460 W 34th St Suite 1701 New York, NY 10001

Re: Termination of NIH Grant R01 AI 110964

Dear Drs. Chmura and Daszak:

I am writing to notify you that the National Institute of Allergy and Infectious Diseases (NIAID), an Institute within the National Institutes of Health (NIH), under the Department of Health and Human Services (HHS) has elected to terminate the project *Understanding the Risk of Bat Coronavirus Emergence*, funded under grant R01 AI110964, for convenience. This grant project was issued under the authorization of Sections 301 and 405 of the Public Health Service Act as amended (42 USC 241 and 284). This grant was funded as a discretionary grant as outlined in the <u>NIH Grants Policy Statement</u>, which states that the decision not to award a grant, or to award a grant at a particular funding level, is at the discretion of the agency, in accordance with NIH's dual review system.

At this time, NIH does not believe that the current project outcomes align with the program goals and agency priorities. NIAID has determined there are no animal and human ethical considerations, as this project is not a clinical trial, but rather an observational study.

As a result of this termination, a total of \$369,819.56 will be remitted to NIAID and additional drawdowns will not be supported. The remaining funds have been restricted in the HHS Payment Management System, effective immediately.

Please let me know if you have any questions concerning the information in this letter.

Sincerely, Lauer, Michael (NIH/OD) [E] Digitally signed by Lauer, Michael (NIH/OD) [E] Date: 2020.04.24 16:41:16 -04'00'

Michael S Lauer, MD NIH Deputy Director for Extramural Research Email: ^{(b) (6)}

cc: Dr. Erik Stemmy Ms. Emily Linde



Date:	April 19, 2020	
From:	Michael S Lauer, MD NIH Deputy Director for Extramural Research	Lauer, Michael Digitally signed by Lauer, Michael (NIH/OD) [E] (NIH/OD) [E] Date: 2020.04.19 10:47:40 -04'00'
То:	Kevin Olival, PhD Vice-President for Research EcoHealth Alliance (b) (6)	
	Naomi Schrag, JD Vice-President for Research Compliance, Traini Columbia University (b) (6)	ng, and Policy

Subject: Project Number 2R01AI110964-06

Dear Dr. Olival and Ms. Schrag:

EcoHealth Alliance, Inc. is the recipient, as grantee, of an NIH grant entitled "Understanding the Risk of Bat Coronavirus Emergence." It is our understanding that one of the sub-recipients of the grant funds is the Wuhan Institute of Virology ("WIV"). It is our understanding that WIV studies the interaction between corona viruses and bats. The scientific community believes that the coronavirus causing COVID-19 jumped from bats to humans likely in Wuhan where the COVID-19 pandemic began. There are now allegations that the current crisis was precipitated by the release from WIV of the coronavirus responsible for COVID-19. Given these concerns, we are pursuing suspension of WIV from participation in Federal programs.

While we review these allegations during the period of suspension, you are instructed to cease providing any funds from the above noted grant to the WIV. This temporary action is authorized by 45 C.F.R. § 75.371(d) ("Initiate suspension or debarment proceedings as authorized under 2 C.F.R. part 180"). The incorporated OMB provision provides that the funding agency may, through suspension, immediately and temporarily exclude from Federal programs persons who are not presently responsible where "immediate action is necessary to protect the public interest." 2 C.F.R. § 180.700(c). It is in the public interest that NIH ensure that a sub-recipient has taken all appropriate precautions to prevent the release of pathogens that it is studying. This suspension of the sub-recipient does not affect the remainder of your grant assuming that no grant funds are provided to WIV following receipt of this email during the period of suspension.

Subject:	Re: PLEASE READ Re: Please read a	and acknowledge receipt Actions needed regarding 2R01AI110964-06	
From:	Aleksei Chmura < ^{(b) (6)}		
Sent:	Mon 4/27/2020 10:57:49 PM (UTC-05:00		
Cc:	Peter Daszak < ^{(b) (6)}	"Black, Jodi (NIH/OD) [E]" <(b) (6) Erik Stemmy	
<(b) (6)	Emily Erbelding <(b) (6)	"Linde, Emily (NIH/NIAID) [E]" <(b) (6) "E	Bulls,
Michelle	G. (NIH/OD) [E]" < ^{(b) (6)}	Alison Andre <(b) (6)	
To:	"Lauer, Michael (NIH/OD) [E]" <(b) (6)		

Dear Michael,

Could Peter and I have a quick chat with you sometime tomorrow (Tuesday) about your email, below?

Sincerely,

-Aleksei

Aleksei Chmura, PhD Chief of Staff

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

(b) (6) (office) (b) (6) (mobile) www.ecohealthalliance.org

EcoHealth Alliance develops science based solutions to prevent pandemics and promote conservation

On Apr 24, 2020, at 16:47, Lauer, Michael (NIH/OD) [E]	< ^{(b) (6)} wrote:
Dear Dr. Chmura and Dr. Daszak	
Please see attached.	
Sincerely, Michael S Lauer, MD	

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

From: Aleksei Chmura < ^{(b) (6)}	
Date: Thursday, April 23, 2020 at 1:50 PM	
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}	
Cc: Peter Daszak < ^{(b) (6)}	"Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}
"Stemmy, Erik (NIH/NIAID) [E]" < ^{(b) (6)}	"Erbelding, Emily (NIH/NIAID) [E]"
_(b) (6)	

Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06

Dear Mike,

I read that we are in agreement and in compliance with all requests. Please let us know if anything further is required. We will continue in our usual close communication with our Program Officer Erik Stemmy. Sincerely,

-Aleksei

Aleksei Chmura Chief of Staff & Authorized Organizational Representative

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

(b) (6) (b) (6) (mobile) www.ecohealthalliance.org

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation.

On Apr 21, 2020, at 19:28, Lauer, Michael (NIH/OD) [E] < (b) (6) wrote:

Many thanks Peter for your response.

We note that:

• No monies have gone to WIV on the Type 2 award and no contract has been signed.

• You agree that you will not provide any funds to WIV until and unless directed otherwise by NIH.

• All foreign sites for the Type 1 and Type 2 awards have been documented in the progress reports submitted to NIH.

We appreciate your working with us.

Best, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

From: Peter Daszak < ^{(b) (6)}		
Date: Tuesday, April 21, 2020 at 7:0	07 PM	-
To: "Lauer, Michael (NIH/OD) [E]" <	(b) (6)	
Cc: "Black, Jodi (NIH/OD) [E]" <(b) (6)	A	Aleksei Chmura
		IH/NIAID) [E]" < ^{(b) (6)}
"Erbelding, Emily (NIH/NIAID) [E]" <	(b) (6)	
		Actions peeded recording 2001 AI110064

Subject: RE: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06

Dear Michael – Confirming receipt of your email. I'm also cc'ing the following people so they're aware of this request:

1. Our AOR – Dr. Aleksei Chmura, who has access to all our records

2. My Program Officer for this award, Dr. Erik Stemmy & the Division Director (DMID), Dr. Emily Erberding, so they are informed and aware of the request and our response.

That said we need some time to go through the request for information and will provide this as quickly as we can.

However, I can categorically state that no funds form 2R01Al110964-06 have been sent to Wuhan Institute of Virology, nor has any contract been signed. <u>Furthermore, we will comply with NIAID</u> requirements, of course.

Concerning the request for information on all of the sites linked to this award in China, you should be aware that these are documented in our progress reports over the course of the grant. As you can understand we are under enormous pressure to generate data related to the current pandemic, and we do not want to divert staff to this effort. We are hoping the previously filed reports will satisfy this request.

We are well aware of the political concerns over the origins of this outbreak. Our collaboration with Wuhan Institute of Virology has been scientific and we have been consistently impressed with the scientific capabilities of that laboratory and its research staff. Our joint work has led to a series of critical papers published in high impact journals that served to raise awareness of the future threat coronaviruses pose for global health and therefore US national security. Scientific insights with epidemiological significance have been jointly published and our relationship has always been open and transparent and with one concern only, scientific validity. We are concerned that current actions may jeopardize 15 years of fruitful collaboration with colleagues in Wuhan, who are working at the leading edge to design vaccines and drugs that could help us fight this new threat in future years. It is quite remarkable that of the 5 vaccine candidates listed by WHO that are already in human trials, 3 have been developed in China. That said, we of course will do all we can to make sure any further questions from NIH or any Federal agency are addressed to our fullest knowledge.

Yours sincerely,

Peter Daszak President

EcoHealth Alliance 460 West 34th Street New York, NY 10001 USA

Tel.: ^{(b) (6)} Website: <u>www.ecohealthalliance.org</u> Twitter: <u>@PeterDaszak</u>

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

From: Lauer, Michael (NIH/OD) [E] < ^{(b) (6)}		
Sent: Monday, April 20, 2020 4:31 PM		
To: Kevin Olival < ^{(b) (6)}	Peter Daszak < ^{(b) (6)}	
	Black, Jodi (NIH/OD) [E] < ^{(b) (6)}	Lauer,
Michael (NIH/OD) [E] < ^{(b) (6)}		•
Subject: Re: Please read and acknowledge rec	eipt Actions needed regarding 2R01AI1109	64-06
Importance: High		

Thank you Kevin

• We need to work with a senior responsible business official – usually PI's and senior business officials are different people.

When I looked you up on the web, I see the Columbia logo (see attached screenshot).
 Specifically, it appears to be Columbia University > Ecology, Evolution, and Environmental Biology
 > EcoHealth Alliance (labeled as an "Affiliation/Department"). Thus the web profile makes it look to me as if EcoHealth Alliance is linked to Columbia University.

In any case, I'm looping in Dr. Daszak.

• We need to know all sites in China that have been in any way linked to this award (Type 1 and Type 2). We have data in NIH, but we want to make absolutely sure that we're of the same understanding.

We greatly appreciate your prompt attention to this matter.

Best, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

 From: Kevin Olival <</td>
 (b) (6)

 Date: Monday, April 20, 2020 at 4:14 PM

 To: "Lauer, Michael (NIH/OD) [E]" <</td>

 Cc: Naomi Schrag <</td>
 (b) (6)

 Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06

Dear Mike,

I received the attached letter, however please note:

1. I am not the PI on this award. You should contact Dr. Peter Daszak (^{(b) (6)}

who is the PI and leading this project for EcoHealth Alliance.

2. Columbia University is not involved in this NIH project, and it is not clear to me why Naomi and Columbia University were included.

Thank you, Kevin

Kevin J. Olival, PhD Vice President for Research

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

(b) (6) (direct) (b) (6) (mobile)

1.212.380.4465 (fax)

www.ecohealthalliance.org

EcoHealth Alliance develops science-based solutions to prevent pandemics *and* promote conservation

On Apr 20, 2020, at 2:16 PM, Lauer, Michael (NIH/OD) [E] <^{(b) (6)}

wrote:

Many thanks Naomi – it would be helpful for us to know about all China-based participants in this work since the Type 1 grant started in 2014 – who they were and how much money they received. The sooner you can get us that information, the better.

Best, Mike

From: Naomi Schrag < ^{(b) (6)}
Date: Sunday, April 19, 2020 at 11:59 AM
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}
^{(b) (6)} (^{b) (6)} Naomi Schrag
< ^{(b) (6)}
Cc: "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}
Subject: RE: Please read and acknowledge receipt Actions needed regarding
2R01AI110964-06
Dear Dr. Lauer,
I am acknowledging receipt of this letter and will get back to you as soon as I can.
Sincerely,
Naomi Schrag
From: Lauer, Michael (NIH/OD) [E] <(b) (6)
Sent: Sunday, April 19, 2020 11:00 AM
To: ^{(b) (6)} Naomi Schrag < ^{(b) (6)}
Cc: Black, Jodi (NIH/OD) [E] < ^{(b) (6)}
Subject: Please read and acknowledge receipt Actions needed regarding 2R01Al110964-
06
Importance: High
Dear Dr. Olival and Ms. Schrag
Please see attached.
Many thanks Mike
Many thanks, Mike
Michael S Lauer, MD
NIH Deputy Director for Extramural Research
1 Center Drive, Building 1, Room 144 Bethesda, MD 20892
Phone: (b) (6) Email: (b) (6)

<EcoHealth Alliance re Al grant 4 19 20.pdf>

<EcoHealth Alliance re Al grant 4 19 20[2].pdf><NoA R01Al110964-06.pdf><NoA R01Al110964-01.pdf>

<Daszak letter 4 24 20.pdf><EcoHealth Alliance re AI grant 4 19 20.pdf>

From: To:	"Tabak, Lawrence (NIH/OD) [E]" < ^{(b) (6)} "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}
Subject: Sent:	Re: Draft response for review FW: Request for information: Senate Qs - Wuhan Institute of Virology Wed 4/15/2020 6:12:36 AM (UTC-05:00)
Mike – sorry – what is the total amount Wuhan has received since 2014?	
Does the	e money go to NY and they send to Wuhan or do we send to Wuhan directly.
Thanks	
Larry	
From	'Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}
Date: Wednesday, April 15, 2020 at 7:11 AM	
To: "Ta < ^{(b) (6)}	bak, Lawrence (NIH/OD) [E]" < ^{(b) (6)} "Erbelding, Emily (NIH/NIAID) [E]"
Cc: "Ma	arston, Hilary (NIH/NIAID) [E]" < ^{(b) (6)} "Lauer, Michael (NIH/OD) [E]"
	: Re: Draft response for review FW: Request for information: Senate Qs - Wuhan Institute of Virology
Thanks –	- just sent you budget details.
Mike	
From: "Tabak, Lawrence (NIH/OD) [E]" < ^{(b) (6)} Date: Tuesday, April 14, 2020 at 10:12 PM	
To: "Erbelding, Emily (NIH/NIAID) [E]" < (b) (6)	
Cc: "Marston, Hilary (NIH/NIAID) [E]" < ^{(b) (6)} "Lauer, Michael (NIH/OD) [E]"	
Subject	Re: Draft response for review FW: Request for information: Senate Qs - Wuhan Institute of Virology
Thanks E	mily.
Looping	in Mike Lauer,
Larry	
From: !	'Erbelding, Emily (NIH/NIAID) [E]" < ^{(b) (6)}
Date: T	uesday, April 14, 2020 at 10:11 PM
To: "Ta	bak, Lawrence (NIH/OD) [E]" < ^{(b) (6)} arston, Hilary (NIH/NIAID) [E]" < ^{(b) (6)}
Subject	: Fwd: Draft response for review FW: Request for information: Senate Qs - Wuhan Institute of Virology
I am for	warding draft response below to inquiry from Rubio et al earlier.
	ter Dazsak, Eco Health alliance in NYC. Wuhan subcontract is approximately 74k per year. I will try to find more e subcontract numbers.
Sent fro	m my iPad
Begin fo	orwarded message:
F	rom: "Abbey, Lillian (NIH/NIAID) [E]" < ^{(b) (6)}
Т	ate: April 14, 2020 at 4:24:34 PM EDT o: "Cassetti, Cristina (NIH/NIAID) [E]" < ^{(b) (6)} "Erbelding, Emily (NIH/NIAID) [E]"
<	b) (6)
C ⊲	c: "Ford, Andrew (NIH/NIAID) [E]" < (b) (6)

Barbara (NIH/NIAID) [E]" <^{(b) (6)} **Subject: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology** Dear Cristina and Emily, Incorporated below in red font is a draft response Andrew developed based on his discussion with Erik. ^{(b) (5)}

Also, Andrew provided the attached publication from mid-March, noting that we may want to share it with the OD.

DRAFT RESPONSE:

 Project
 2R01AI110964-06
 Contact PI / Project
 DASZAK, PETER

 Number:
 UNDERSTANDING THE RISK OF BAT CORONAVIRUS
 Awardee
 ECOHEALTH ALLIANCE, INC.

 Title:
 UNDERSTANDING THE RISK OF BAT CORONAVIRUS
 Awardee
 ECOHEALTH ALLIANCE, INC.

https://projectreporter.nih.gov/project_info_description.cfm?aid=9819304&icde=49588715&ddparam=&ddvalue=&_ddsub=&cr=1&csb=default&cs=ASC&pball=

1. What are the goals of the main grant:

(b) (5)

2. What are the specific activities supported by the sub to the Wuhan lab and the total costs associated with these activities. Please verify if the creation of recombinant bat in Wuhan is included in their research activities.

(b) (5)

Total award information is available in Reporter at link above but budget information about subcontracts is not publicly available as these awards are administered by the grantee institution.

From: Crawford, Chase (NIH/NIAID) [E] < ^{(b) (6)}	
Sent: Monday, April 13, 2020 5:41 PM	
To: NIAID BUGS < ^{(b) (6)}	_
Cc: Auchincloss, Hugh (NIH/NIAID) [E] < ^{(b) (6)}	Harper, Jill (NIH/NIAID) [E]
< ^{(b) (6)} NIAID OCGR Leg < ^{(b) (6)}	
Subject: Request for information: Senate Qs - Wuhan Institute of Vi	rology

Hi BUGS,

Staff to Senator Marco Rubio (R-FL) has forwarded an email to Building 1 from the White Coat Waste Project (see bottom of email chain). The forwarded message links to recent articles in The Daily Mail and the Washington Examiner on NIH support for previous coronavirus studies involving the Wuhan Institute of Virology. Building 1 has asked if NIAID has any information related to this research that we can share with staff to Senators Rubio and Mike Braun (R-IN).

To help us better understand this congressional request, is there any background information that you can provide on the activities discussed in the articles referenced below?

Thanks, Chase (b) (6)

From: LaMontagne, Karen (NIH/OD) [E] <^{(b) (6)} Sent: Monday, April 13, 2020 4:23 PM To: NIAID OCGR Leg <^{(b) (6)} Subject: Senate Qs - Wuhan Institute of Virology

Hi, NIAID,

Separately, we have heard from the offices of Senators Rubio and Braun about these linked articles:

<u>White Coat Waste</u> <u>Daily Mail</u> <u>Washington Examiner</u>

Both offices have asked if there's any information we can share with them related to this matter. Thanks in advance for anything you can provide.

Karen

From: Michelle Mitchell <^{(b) (6)} Date: Monday, April 13, 2020 at 3:42 PM To: Karen LaMontagne <^{(b) (6)} Subject: Sen. Rubio question - NIH funding Wuhan virus lab

Hey Karen,

Sen. Rubio's staff, Ansley Rhyne, forwarded the email below that she received regarding NIH funding for the Wuhan Institute of Virology. Her boss, along with Rep. Gaetz are working on a letter to ensure no taxpayer dollars are sent to that Institute.

Ansley requested our input. Would you ask NIAID for any information on this issue that we could be shared with Ansley?

Thank you.

MM

From: Justin Goodman <<u>justin@whitecoatwaste.org</u>> Sent: Monday, April 13, 2020 2:36 PM To: Subject: Laura- NIH funding Wuhan virus lab

I hope you had a nice weekend and are staying safe and healthy. I wanted to make sure you saw that our taxpayer watchdog group just <u>exposed</u> that the National Institutes of Health (NIH) has been sending tax dollars to the controversial Wuhan Institute of Virology for years, including for dangerous lab

experiments on coronavirus-infected bats captured from caves. The <u>Daily Mail</u>, <u>Washington Examiner</u>, Drudge and others ran stories about the troubling find over the weekend.

We're working with Rep. Matt Gaetz (R-FL) and others on a sign-on letter about this and would love to work with you and Senator Rubio as well to ensure no more tax dollars are shipped to the Wuhan Institute of Virology.

I'd be happy to send over more info if you're interested and answer any questions you may have.

Thanks for looking,

Justin

Justin Goodman, M.A. Vice President, Advocacy and Public Policy White Coat Waste Project

Taxpayers shouldn't be forced to pay \$20 billion+ for **wasteful** government animal experiments.

PO Box 26029 Washington, DC 20001 Phone: 860.882.2492 Donate | Blog | Web | Twitter | Facebook

From: To: Cc: "Bulls, Mic Subject: Sent:	"Bettencourt, Alice (HHS/ASFR)" <(b) (6) "Bulls, Michelle G. (NIH/OD) [E]" <(b) (6) "Tarwater, Robert (NIH/OD) [E]" <(b) (6) chelle G. (NIH/OD) [E]" <(b) (6) RE: Subrecipients Under FAIN R01AI110964 Tue 4/21/2020 2:22:47 PM (UTC-05:00)
Hi Miche No worri up!	elle, This was more of a heads up in case we get asked since nothing was listed in the reporting system. Thanks for following
Alice	
Sent: Tue To: Black Cc: Tarwa Bettenco	ulls, Michelle G. (NIH/OD) [E] < ^{(b) (6)} esday, April 21, 2020 8:44 AM k, Jodi (NIH/OD) [E] < ^{(b) (6)} ater, Robert (NIH/OD) [E] < ^{(b) (6)} burt, Alice (HHS/ASFR) < ^{(b) (6)} RE: Subrecipients Under FAIN R01AI110964
Hi Alice, Jodi and of the da Michelle	
Sent: Mo To: Bulls, Cc: Tarwa (NIH/OD)	ack, Jodi (NIH/OD) [E] < ^{(b) (6)} onday, April 20, 2020 10:28 PM , Michelle G. (NIH/OD) [E] < ^{(b) (6)} ater, Robert (NIH/OD) [E] < ^{(b) (6)} Black, Jodi (NIH/OD) [E] < ^{(b) (6)} Lauer, Michael) [E] < ^{(b) (6)} FW: Subrecipients Under FAIN R01AI110964
Hi Miche	lle, how do you suggest we proceed? See below
Best, Jodi	
Deputy D	lack, PhD, MMSc Director Extramural Research, NIH
Date: M To: "Bet Cc: Mike	Alike Lauer < ^{(b) (6)} Ionday, April 20, 2020 at 6:55 PM Itencourt, Alice (HHS/ASFR)'' < ^{(b) (6)} Ioue Lauer < ^{(b) (6)} Re: Subrecipients Under FAIN R01AI110964
Thanks A	lice – looping in Jodi – we'll look into it.
Best, Mil	ke
Date: M To: "Lau	Bettencourt, Alice (HHS/ASFR)" < ^{(b) (6)} londay, April 20, 2020 at 5:04 PM ler, Michael (NIH/OD) [E]" < ^{(b) (6)} : RE: Subrecipients Under FAIN R01AI110964

1	1	15	1
U	"	())

From: Lauer, Michael (NIH/OD) [E] <(b) (6)	
Sent: Monday, April 20, 2020 4:57 PM	
To: Bettencourt, Alice (HHS/ASFR) < ^{(b) (6)}	Bulls, Michelle G. (NIH/OD) [E] < ^{(b) (6)} Black,
Jodi (NIH/OD) [E] < ^{(b) (6)}	
Cc: Lauer, Michael (NIH/NHLBI) [E] < ^{(b) (6)}	
Subject: Re: Subrecipients Under FAIN R01AI11	0964
Hi Alice – here's the info I have – from NIAID. T	'hanks, Mike
R01-AI-110964, Peter Daszak, PI to ECOHEA	LTH ALLIANCE
Initial competitive segment (starting with T	ype 1, grant years 01-05 funded from 06/01/2014 - 05/31/2019)
Funded Chinese sites:	
East China Normal University, Shanghai	\$295,623 (5 years)
Wuhan Inst. Virology, Wuhan	\$749,966 (5 years)
Chinese collaborators (no funds awarded) a	ilso located at:
Center for Disease Control and Prevention,	
Guangdong Entomological Institute, Shangh	-
Yunnan Institute of Endemic Diseases Conti	
ruman institute of Endernic Diseases Conti	of and Frevention, Dan
Second competitive segment (starting with	Type 2, revised NOA)
Currently in year 6 (budget period ends 6/3	
Funded Chinese sites:	
Institute of Pathogen Biology, Beijing	\$75,600 (1 year)
Wuhan Institute of Virology, Wuhan	\$76,301 (1 year)
	+ (-) · ·)
Chinese collaborators also located at:	
East China Normal University, Shanghai rec	eiving consultant costs for \$49,750 (1 year)
(A)	
From: "Bettencourt, Alice (HHS/ASFR)" < (b) (
Date: Monday, April 20, 2020 at 4:49 PM	
To: "Bulls, Michelle G. (NIH/OD) [E]" < ^{(b) (6)}	"Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}
Subject: Subrecipients Under FAIN R01AI11	0964
Mike, Michelle,	
-	are subrecipients to Ecohealth Alliance under the subject FAIN. No subrecipients
are reported in USASpending. Could you please	have the application checked and let me know. (b) (5)

Thank you,

Alice

 From:
 "Tabak, Lawrence (NIH/OD) [E]" <^{(b) (6)}

 To:
 "Lauer, Michael (NIH/OD) [E]" <^{(b) (6)}

 Subject:
 Re: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology

 Sent:
 Wed 4/15/2020 6:24:35 AM (UTC-05:00)

So we don't technically fund them directly, the grantee in NY does?

From: "Lauer, Michael (NIH/OD) [E]" <^{(b) (b)} Date: Wednesday, April 15, 2020 at 7:23 AM To: "Tabak, Lawrence (NIH/OD) [E]" <^{(b) (6)} Cc: "Lauer, Michael (NIH/OD) [E]" <^{(b) (6)} Subject: Re: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology

Hi Larry – on the Type 1 total is 749,976. On the Type 2, looks like the total is 76,301 (so far). Thus total is 749,976+76,301=826,277.

It's a subcontract going through New York.

Mike

From: "Tabak, Lawrence (NIH/OD) [E]" <^{(b) (6)} Date: Wednesday, April 15, 2020 at 7:12 AM To: "Lauer, Michael (NIH/OD) [E]" <^{(b) (6)} Subject: Re: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology

Mike - sorry - what is the total amount Wuhan has received since 2014?

Does the money go to NY and they send to Wuhan or do we send to Wuhan directly.

Thanks Larry

From: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}	
Date: Wednesday, April 15, 2020 at 7:11 AM	_
To: "Tabak, Lawrence (NIH/OD) [E]" < ^{(b) (6)}	"Erbelding, Emily (NIH/NIAID) [E]"
< ^{(b) (6)}	
Cc: "Marston, Hilary (NIH/NIAID) [E]" < (b) (6)	"Lauer, Michael (NIH/OD) [E]"
<(b) (6)	

Subject: Re: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology

Thanks - just sent you budget details.

Mike

From: "Tabak, Lawrence (NIH/OD) [E]" < ^{(b) (6)}	
Date: Tuesday, April 14, 2020 at 10:12 PM	-
To: "Erbelding, Emily (NIH/NIAID) [E]" < ^{(b) (6)}	
Cc: "Marston, Hilary (NIH/NIAID) [E]" < ^{(b) (6)}	"Lauer, Michael (NIH/OD) [E]"
<(b) (6)	

Subject: Re: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology

Thanks Emily. Looping in Mike Lauer, Larry From: "Erbelding, Emily (NIH/NIAID) [E]" <^{(b) (6)} Date: Tuesday, April 14, 2020 at 10:11 PM To: "Tabak, Lawrence (NIH/OD) [E]" <^{(b) (6)} Cc: "Marston, Hilary (NIH/NIAID) [E]" <^{(b) (6)} Subject: Fwd: Draft response for review -- FW: Request for information: Senate Qs - Wuhan Institute of Virology

I am forwarding draft response below to inquiry from Rubio et al earlier.

PI is Peter Dazsak, Eco Health alliance in NYC. Wuhan subcontract is approximately 74k per year. I will try to find more accurate subcontract numbers.

Sent from my iPad Begin forwarded message:

	, Lillian (NIH/NIAID) [E]" < ^{(b) (6)}			
To: "Cassetti, (< ^{(b) (6)} Cc: "Ford, And	, 2020 at 4:24:34 PM EDT Cristina (NIH/NIAID) [E]" < ^{(b) (6)} Irew (NIH/NIAID) [E]" < ^{(b) (6)}		eman, Karen	Emily (NIH/NIAID) [E]" (NIH/NIAID) [E]"
< ^{(b) (6)} Barbara (NIH/I	"Werner, Alyssa (NII NIAID) [E]" < ^{(b) (6)}	I/NIAID) [E]" < ⁰⁰¹	.0)	"Mulach,
Subject: Draft Virology	response for review FW: Requ	iest for informatio	on: Senate Qs	- Wuhan Institute of
Dear Cristina and Incorporated be	d Emily, low in red font is a draft response And	rew developed based	d on his discuss	ion with Erik. ^{(b) (5)}
		ndrew provided the	attached publi	cation from mid-March,
noting that we n	nay want to share it with the OD.			
DRAFT RESPONS	<mark>E:</mark>			
Project 2R0 Number:	01AI110964-06	Conta Leade		DASZAK, PETER
	DERSTANDING THE RISK OF BAT CORO ERGENCE		dee nization:	ECOHEALTH ALLIANCE, INC

https://projectreporter.nih.gov/project_info_description.cfm?aid=9819304&icde=49588715&ddparam=&ddvalue=&_ddsub=&cr=1&csb=default&cs=ASC&pball=_

1 What are the goals of the main grant

(b) (5)

2. What are the specific activities supported by the sub to the Wuhan lab and the total costs associated with these activities. Please verify if the creation of recombinant bat in Wuhan is included in their research activities.

(b) (5)



Total award information is available in Reporter at link above but budget information about subcontracts is not publicly available as these awards are administered by the grantee institution.

 From: Crawford, Chase (NIH/NIAID) [E] <^{(b) (6)}

 Sent: Monday, April 13, 2020 5:41 PM

 To: NIAID BUGS <^{(b) (6)}

 Cc: Auchincloss, Hugh (NIH/NIAID) [E] <^{(b) (6)}

 Harper, Jill (NIH/NIAID) [E] <^{(b) (6)}

 VIAID OCGR Leg <^{(b) (6)}

 Subject: Request for information: Senate Qs - Wuhan Institute of Virology

Hi BUGS,

Staff to Senator Marco Rubio (R-FL) has forwarded an email to Building 1 from the White Coat Waste Project (see bottom of email chain). The forwarded message links to recent articles in The Daily Mail and the Washington Examiner on NIH support for previous coronavirus studies involving the Wuhan Institute of Virology. Building 1 has asked if NIAID has any information related to this research that we can share with staff to Senators Rubio and Mike Braun (R-IN).

To help us better understand this congressional request, is there any background information that you can provide on the activities discussed in the articles referenced below?

Thanks, Chase (b) (6)

From: LaMontagne, Karen (NIH/OD) [E] <^{(b) (6)} Sent: Monday, April 13, 2020 4:23 PM To: NIAID OCGR Leg <^{(b) (6)} Subject: Senate Qs - Wuhan Institute of Virology

Hi, NIAID,

Separately, we have heard from the offices of Senators Rubio and Braun about these linked articles:

<u>White Coat Waste</u> <u>Daily Mail</u> Washington Examiner

Both offices have asked if there's any information we can share with them related to this matter. Thanks in advance for anything you can provide.

Karen

From: Michelle Mitchell <^{(b) (6)} Date: Monday, April 13, 2020 at 3:42 PM To: Karen LaMontagne <^{(b) (6)} Subject: Sen. Rubio question - NIH funding Wuhan virus lab

Hey Karen,

Sen. Rubio's staff, Ansley Rhyne, forwarded the email below that she received regarding NIH funding for the Wuhan

Institute of Virology. Her boss, along with Rep. Gaetz are working on a letter to ensure no taxpayer dollars are sent to that Institute.

Ansley requested our input. Would you ask NIAID for any information on this issue that we could be shared with Ansley?

Thank you.

MM

From: Justin Goodman <<u>justin@whitecoatwaste.org</u>> Sent: Monday, April 13, 2020 2:36 PM To: Subject: Laura- NIH funding Wuhan virus lab

I hope you had a nice weekend and are staying safe and healthy. I wanted to make sure you saw that our taxpayer watchdog group just <u>exposed</u> that the National Institutes of Health (NIH) has been sending tax dollars to the controversial Wuhan Institute of Virology for years, including for dangerous lab experiments on coronavirus-infected bats captured from caves. The <u>Daily Mail</u>, <u>Washington Examiner</u>, Drudge and others ran stories about the troubling find over the weekend.

We're working with Rep. Matt Gaetz (R-FL) and others on a sign-on letter about this and would love to work with you and Senator Rubio as well to ensure no more tax dollars are shipped to the Wuhan Institute of Virology.

I'd be happy to send over more info if you're interested and answer any questions you may have.

Thanks for looking,

Justin

Justin Goodman, M.A. Vice President, Advocacy and Public Policy White Coat Waste Project

Taxpayers shouldn't be forced to pay \$20 billion+ for **wasteful** government animal experiments.

PO Box 26029 Washington, DC 20001 Phone: 860.882.2492 Donate | Blog | Web | Twitter | Facebook

"Lauer, Michael (NIH/OD) [E]" < (b) (6) From: To: Peter Daszak < (b) (6) Aleksei Chmura < (b) (6) Cc: "Black, Jodi (NIH/OD) [E]" <(b) (6) "Stemmy, Erik (NIH/NIAID) [E]" <(b) (6) <(b) (6) 'Erbelding, Emily (NIH/NIAID) [E]" Lauer, Michael (NIH/OD) [E]" <^{(b) (6)} Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06 Subject: Sent: Tue 4/21/2020 6:28:20 PM (UTC-05:00) EcoHealth Alliance re Al grant 4 19 20[2].pdf NoA R01AI110964-06.pdf NoA R01AI110964-01.pdf

Many thanks Peter for your response.

We note that:

- No monies have gone to WIV on the Type 2 award and no contract has been signed.
- You agree that you will not provide any funds to WIV until and unless directed otherwise by NIH.
- All foreign sites for the Type 1 and Type 2 awards have been documented in the progress reports submitted to NIH.

We appreciate your working with us.

Best, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

From: Peter Daszak < ^{(b) (6)}		
Date: Tuesday, April 21, 2020 at 7:07 PM		
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}		
Cc: "Black, Jodi (NIH/OD) [E]" <(b) (6)	Aleksei Chmura < ^{(b) (6)}	"Stemmy, Erik
(NIH/NIAID) [E]" < ^{(b) (6)}	"Erbelding, Emily (NIH/NIAID) [E]" < ^{(b) (6)}	
Subject: RE: Please read and acknowledge	e receipt Actions needed regarding 2R01Al110964-06	

Dear Michael - Confirming receipt of your email. I'm also cc'ing the following people so they're aware of this request:

- 1. Our AOR Dr. Aleksei Chmura, who has access to all our records
- 2. My Program Officer for this award, Dr. Erik Stemmy & the Division Director (DMID), Dr. Emily Erberding, so they are informed and aware of the request and our response.

That said we need some time to go through the request for information and will provide this as quickly as we can.

However, I can categorically state that no funds form 2R01Al110964-06 have been sent to Wuhan Institute of Virology, nor has any contract been signed. Furthermore, we will comply with NIAID requirements, of course.

Concerning the request for information on all of the sites linked to this award in China, you should be aware that these are documented in our progress reports over the course of the grant. As you can understand we are under enormous pressure to generate data related to the current pandemic, and we do not want to divert staff to this effort. We are hoping the previously filed reports will satisfy this request.

We are well aware of the political concerns over the origins of this outbreak. Our collaboration with Wuhan Institute of Virology has been scientific and we have been consistently impressed with the scientific capabilities of that laboratory and its research staff. Our joint work has led to a series of critical papers published in high impact journals that served to raise awareness of the future threat coronaviruses pose for global health and therefore US national security. Scientific insights with epidemiological significance have been jointly published and our relationship has always been open and transparent and with one concern only, scientific validity. We are concerned that current actions may jeopardize 15 years of fruitful collaboration with colleagues in Wuhan, who are working at the leading edge to design vaccines and drugs that could help us fight this new threat in future years. It is quite remarkable that of the 5 vaccine candidates listed by WHO that are already in human trials, 3 have been developed in China. That said, we of course will do all we can to make sure any further questions from NIH or any Federal agency are addressed to our fullest knowledge.

Yours sincerely,

Peter Daszak President EcoHealth Alliance 460 West 34th Street New York, NY 10001 USA Tel.: (b) (6) Website: www.ecohealthalliance.org

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

From: Lauer, Michael (NIH/OD) [E] <(b) (6)		
Sent: Monday, April 20, 2020 4:31 PM		
To: Kevin Olival < ^{(b) (6)}	Peter Daszak < ^{(b) (6)}	
Cc: Naomi Schrag < ^{(b) (6)}	Black, Jodi (NIH/OD) [E] < ^{(b) (6)}	Lauer, Michael (NIH/OD) [E]
(b) (6)		

Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06 Importance: High

Thank you Kevin

Twitter: @PeterDaszak

- We need to work with a senior responsible business official usually PI's and senior business officials are different people.
- When I looked you up on the web, I see the Columbia logo (see attached screenshot). Specifically, it appears to be Columbia University > Ecology, Evolution, and Environmental Biology > EcoHealth Alliance (labeled as an

"Affiliation/Department"). Thus the web profile makes it look to me as if EcoHealth Alliance is linked to Columbia University. • In any case, I'm looping in Dr. Daszak.

• We need to know all sites in China that have been in any way linked to this award (Type 1 and Type 2). We have data in NIH, but we want to make absolutely sure that we're of the same understanding.

We greatly appreciate your prompt attention to this matter.

Best, Mike

Michael S Lauer MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

 From: Kevin Olival <</td>
 (b) (6)

 Date: Monday, April 20, 2020 at 4:14 PM

 To: "Lauer, Michael (NIH/OD) [E]" <</td>

 (b) (6)

 Cc: Naomi Schrag <</td>

 (b) (6)

 Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06

Dear Mike,

I received the attached letter, however please note:

 1. I am not the PI on this award. You should contact Dr. Peter Daszak (^{(b) (6)}
 who is the PI and leading this project for EcoHealth Alliance.

2. Columbia University is not involved in this NIH project, and it is not clear to me why Naomi and Columbia University were included.

Thank you, Kevin

Kevin J. Olival, PhD Vice President for Research

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

(b) (6) (direct) (b) (6) (mobile)

1.212.380.4465 (fax) www.ecohealthalliance.org

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

On Apr 20, 2020, at 2:16 PM, Lauer, Michael (NIH/OD) [E] <^{(b) (6)} wrote:

Many thanks Naomi – it would be helpful for us to know about all China-based participants in this work since the Type 1 grant started in 2014 – who they were and how much money they received. The sooner you can get us that information, the better.

Best, Mike

From: Naomi Schrag <	(b) (6)		
Date: Sunday, April 19), 2020 at 11:59 AM		
To: "Lauer, Michael (N	IIH/OD) [E]" < ^{(b) (6)}	и(b) (б)	
< ^{(b) (6)}	Naomi Schrag < ^{(b) (6)}		
Cc: "Black, Jodi (NIH/C			
Subject: RE: Please rea	ad and acknowledge receipt	Actions needed regarding 2R01	AI110964-06
Dear Dr. Lauer,			
I am acknowledging rec	eipt of this letter and will get bacl	k to you as soon as I can.	
Sincerely,			
Naomi Schrag			
From: Lauer, Michael (N	IIH/OD) [E] < ^{(b) (6)}		
Sent: Sunday, April 19, 2			
To: ^{(b) (6)}	Naomi Schrag < ^{(b) (6)}		
Cc: Black, Jodi (NIH/OD)	[E] < ^{(b) (6)}		
Subject: Please read and	d acknowledge receipt Actions r	needed regarding 2R01AI110964-0	6
Importance: High			
Dear Dr. Olival and Ms.	Schrag		

Please see attached.

Many thanks, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

<EcoHealth Alliance re Al grant 4 19 20.pdf>

Date:	April 19, 2020	
From:	Michael S Lauer, MD NIH Deputy Director for Extramural Research	Lauer, Michael Digitally signed by Lauer, Michael (NIH/OD) [E] (NIH/OD) [E] Date: 2020.04.19 10:47:40 -04'00'
То:	Kevin Olival, PhD Vice-President for Research EcoHealth Alliance (b) (6)	
	Naomi Schrag, JD Vice-President for Research Compliance, Traini Columbia University (b) (6)	ng, and Policy

Subject: Project Number 2R01AI110964-06

Dear Dr. Olival and Ms. Schrag:

EcoHealth Alliance, Inc. is the recipient, as grantee, of an NIH grant entitled "Understanding the Risk of Bat Coronavirus Emergence." It is our understanding that one of the sub-recipients of the grant funds is the Wuhan Institute of Virology ("WIV"). It is our understanding that WIV studies the interaction between corona viruses and bats. The scientific community believes that the coronavirus causing COVID-19 jumped from bats to humans likely in Wuhan where the COVID-19 pandemic began. There are now allegations that the current crisis was precipitated by the release from WIV of the coronavirus responsible for COVID-19. Given these concerns, we are pursuing suspension of WIV from participation in Federal programs.

While we review these allegations during the period of suspension, you are instructed to cease providing any funds from the above noted grant to the WIV. This temporary action is authorized by 45 C.F.R. § 75.371(d) ("Initiate suspension or debarment proceedings as authorized under 2 C.F.R. part 180"). The incorporated OMB provision provides that the funding agency may, through suspension, immediately and temporarily exclude from Federal programs persons who are not presently responsible where "immediate action is necessary to protect the public interest." 2 C.F.R. § 180.700(c). It is in the public interest that NIH ensure that a sub-recipient has taken all appropriate precautions to prevent the release of pathogens that it is studying. This suspension of the sub-recipient does not affect the remainder of your grant assuming that no grant funds are provided to WIV following receipt of this email during the period of suspension.



RESEARCH Department of Health and Human Services National Institutes of Health

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Grant Number: 2R01AI110964-06 REVISED FAIN: R01AI110964

Principal Investigator(s):

PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Dr. Daszak, Peter PD/PI 460 West 34th Street Suite 1701 New York, NY 100012320

Award e-mailed to: (b) (6)

Period Of Performance: Budget Period: 07/24/2019 - 06/30/2020 Project Period: 06/01/2014 - 06/30/2024

Dear Business Official:

The National Institutes of Health hereby revises this award to reflect a decrease in the amount of \$71,770 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01AI110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website

<u>http://grants.nih.gov/grants/policy/coi/</u> for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV

Sincerely your,

Tseday G Girma Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

SECTION I – AWARD DATA – 2R01AI110964-06 REVISED	
Award Calculation (U.S. Dollars)	
Salaries and Wages	\$170,123
Fringe Benefits	\$53,590
Personnel Costs (Subtotal)	\$223,713
Consultant Services	\$49,750
Materials & Supplies	\$20,850
Travel	\$15,027
Subawards/Consortium/Contractual Costs	\$229,651
Federal Direct Costs	\$538,991
Federal F&A Costs	\$122,989
Approved Budget	\$661,980
Total Amount of Federal Funds Obligated (Federal Share)	\$661,980
TOTAL FEDERAL AWARD AMOUNT	\$661,980
AMOUNT OF THIS ACTION (FEDERAL SHARE)	(\$-71,770)

SUMMARY TOTALS FOR ALL YEARS					
YR	THIS AWARD	CUMULATIVE TOTALS			
6	\$661,980	\$661,980			
7	\$637,980	\$637,980			
8	\$637,980	\$637,980			
9	\$637,980	\$637,980			
10	\$637,980	\$637,980			

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

Fiscal Information:

CFDA Name:	Allergy and Infectious Diseases Research
CFDA Number:	93.855
EIN:	1311726494A1
Document Number:	RAI110964B
PMS Account Type:	P (Subaccount)
Fiscal Year:	2019

IC	CAN	2019	2020	2021	2022	2023
AI	8472364	\$661,980	\$637,980	\$637,980	\$637,980	\$637,980

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

NIH Administrative Data:

PCC: M51C B / OC: 414B / Released: ^{(b) (6)} 08/02/2019 Award Processed: 08/05/2019 12:01:51 AM

SECTION II - PAYMENT/HOTLINE INFORMATION - 2R01AI110964-06 REVISED

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant_nih.gov/grant_/policy/awardcondition_htm</u>

SECTION III - TERMS AND CONDITIONS - 2R01AI110964-06 REVISED

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

- a. The grant program legislation and program regulation cited in this Notice of Award.
- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.

- c. 45 CFR Part 75.
- d. National Policy Requirements and all other requirements described in the NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. Federal Award Performance Goals: As required by the periodic report in the RPPR or in the final progress report when applicable.
- f. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at http://grants.nih.gov/grants/policy/awardconditions.htm for certain references cited above.)

Research and Development (R&D): All awards issued by the National Institutes of Health (NIH) meet the definition of "Research and Development" at 45 CFR Part§ 75.2. As such, auditees should identify NIH awards as part of the R&D cluster on the Schedule of Expenditures of Federal Awards (SEFA). The auditor should test NIH awards for compliance as instructed in Part V, Clusters of Programs. NIH recognizes that some awards may have another classification for purposes of indirect costs. The auditor is not required to report the disconnect (i.e., the award is classified as R&D for Federal Audit Requirement purposes but non-research for indirect cost rate purposes), unless the auditee is charging indirect costs at a rate other than the rate(s) specified in the award document(s).

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the System for Award Management (SAM). Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing thi requirement and other additional information

Thi award ha been a igned the Federal Award Identification Number (FAIN) R01AI110964 Recipients must document the assigned FAIN on each consortium/subaward issued under this award

Ba ed on the project period tart date of thi project, thi award i likely ubject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170 There are condition that may e clude thi award; ee http://grants.nih.gov/grants/policy/awardconditions.htm for additional award applicability information

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: <u>http://publicacce_____nih.gov/</u>

In accordance with the regulatory requirements provided at 45 CFR 75.113 and Appendix XII to 45 CFR Part 75, recipient that have currently active Federal grant , cooperative agreement , and procurement contracts with cumulative total value greater than \$10,000,000 must report and maintain information in the Sy tem for Award Management (SAM) about civil, criminal, and administrative proceedings in connection with the award or performance of a Federal award that reached final di po ition within the mo t recent five year period The recipient mu t al o make semiannual disclosures regarding such proceedings. Proceedings information will be made publicly available in the de ignated integrity and performance y tem (currently the Federal Awardee Performance and Integrity Information System (FAPIIS)). Full reporting requirements and procedure are found in Appendi II to 45 CFR Part 75 Thi term doe not apply to NIH fellowships.

SECTION IV – AI Special Terms and Conditions – 2R01AI110964-06 REVISED

Clinical Trial Indicator: No

This award does not support any NIH-defined Clinical Trials. See the NIH Grants Policy Statement Section 1.2 for NIH definition of Clinical Trial.

REVISED AWARD: This award is revised to adjust the budget in accordance with the letter from Aleksei Chmura/ECOHealth Alliance.

Supersedes previous Notice of Award dated 07/24/2019.

This Notice of Award (NoA) includes funds for activity with **The University of North Carolina at Chapel Hill** in the amount of **\$77,750** (**\$50,000** direct costs + **\$27,750**F&A costs).

This Notice of Award (NoA) includes funds for activity with **Wuhan Institute of Virology** in the amount of **\$76,301** (**\$70,649** direct costs + **\$5,652** F&A costs).

This Notice of Award (NoA) includes funds for activity with **Institute of Pathogen Biology** in the amount of **\$75,600** (**\$70,000** direct costs + **\$5,600** F&A costs).

The Research Performance Progress Report (RPPR), Section G.9 (Foreign component), includes reporting requirements for all research performed outside of the United States. Research conducted at the following site(s) must be reported in your RPPR:

Wuhan Institute of Virology, CHINA Institute of Pathogen Biology, CHINA East China Normal University, CHINA Duke-NUS Medical School, SINGAPORE

This award reflects current Federal policies regarding Facilities & Administrative (F&A) Costs for foreign grantees including foreign sub-awardees, and domestic awards with foreign sub-awardees. Please see: Chapter 16 Grants to Foreign Organizations, International Organizations, and Domestic Grants with Foreign Components, <u>Section 16.6 "Allowable and Unallowable Cost"</u> of the NIH Grants Policy.

This award may include collaborations with and/or between foreign organizations. Please be advised that short term travel visa expenses are an allowable expense on this grant, if justified as critical and necessary for the conduct of the project.

The budget period anniversary start date for future year(s) will be **July** 1.

Dissemination of study data will be in accord with the Recipient's accepted genomic data sharing plan as stated in the page(s) **203** of the application. Failure to adhere to the sharing plan as mutually agreed upon by the Recipient and the NIAID may result in Enforcement Actions as described in the NIH Grants Policy Statement.

This award is subject to the Clinical Terms of Award referenced in the NIH Guide for Grants and Contracts, July 8, 2002, NOT AI-02-032. These terms and conditions are hereby incorporated by

Page-5

reference, and can be accessed via the following World Wide Web address: <u>https://www.niaid.nih.gov/grants-contracts/niaid-clinical-terms-award</u> All submissions required by the NIAID Clinical Terms of Award must be forwarded electronically or by mail to the responsible NIAID Program Official identified on this Notice of Award.

Awardees who conduct research involving Select Agents (see 42 CFR 73 for the Select Agent list; and 7 CFR 331 and 9 CFR 121 for the relevant animal and plant pathogens at http://www.selectagents.gov/Regulations.html) must complete registration with CDC (or APHIS, depending on the agent) before using NIH funds. No funds can be used for research involving Select Agents if the final registration certificate is denied.

Prior to conducting a restricted experiment with a Select Agent or Toxin, awardees must notify the NIAID and must request and receive approval from CDC or APHIS.

Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well as changes in on-going experiments that would require change in the biosafety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be assumed an approval to other individuals who conduct the same restricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www.selectagents.gov/Regulations.html).

Highly Pathogenic Agent:

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment safety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/ohs/biosfty/bmbl5/bmbl5/bmbl5toc.htm</u>). Research funded under this grant mu t adhere to the BMBL, including u ing the BMBL recommended biocontainment level at a minimum. If your Institutional Biosafety Committee (or equivalent body) or designated in titutional bio afety official recommend a higher biocontainment level, the highe t recommended containment level must be used.

When ubmitting future Progre Report indicate at the beginning of the report

If no re earch with a Highly Pathogenic Agent or Select Agent ha been performed or i planned to be performed under this grant.

If your IBC or equivalent body or official has determined, for example, by conducting a risk a e ment, that the work being planned or performed under thi grant may be conducted at a biocontainment safety level that is lower than BSL3.

If the work involves Select Agents and/or Highly Pathogenic Agents, also address the following point

Any change in the u e of the Agent() or To in() including it re tricted experiments that have resulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, a determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide

A li t of the new and/or additional Agent() that will be tudied;
A description of the work that will be done with the Agent(s), and whether or not the work i a re tricted e periment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operate the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official It is important to note if the work is being done in a new location.

STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

Grants Management Specialist: Tseday G GirmaEmail: (b) (6)Phone: (b) (6)

Fax: 301-493-0597

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

SPREADSHEET SUMMARY GRANT NUMBER: 2R01AI110964-06 REVISED

INSTITUTION: ECOHEALTH ALLIANCE, INC.

Budget	Year 6	Year 7	Year 8	Year 9	Year 10
Salaries and Wages	\$170,123	\$170,123	\$170,123	\$170,123	\$170,123
Fringe Benefits	\$53,590	\$53,590	\$53,590	\$53,590	\$53,590
Personnel Costs (Subtotal)	\$223,713	\$223,713	\$223,713	\$223,713	\$223,713
Consultant Services	\$49,750	\$49,750	\$49,750	\$49,750	\$49,750
Materials & Supplies	\$20,850	\$14,850	\$14,850	\$14,850	\$14,850
Travel	\$15,027	\$15,027	\$15,027	\$15,027	\$15,027
Subawards/Consortium/Contractual	\$229,651	\$229,651	\$229,651	\$229,651	\$229,651
Co t					
Publication Co t		\$6,000	\$6,000	\$6,000	\$6,000
TOTAL FEDERAL DC	\$538,991	\$538,991	\$538,991	\$538,991	\$538,991
TOTAL FEDERAL F&A	\$122,989	\$98,989	\$98,989	\$98,989	\$98,989
TOTAL COST	\$661,980	\$637,980	\$637,980	\$637,980	\$637,980

Facilitie and Admini trative Co t	Year 6	Year 7	Year 8	Year 9	Year 10
F&A Co t Rate 1	32%	32%	32%	32%	32%
F&A Co t Ba e 1	\$384,340	\$309,340	\$309,340	\$309,340	\$309,340
F&A Cot 1	\$122,989	\$98,989	\$98,989	\$98,989	\$98,989





Grant Number:1R01Al110964-01FAIN:R01Al110964

Principal Investigator(s): PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Aleksei President 460 West 34th Street 17th Floor New York, NY 100012317

Award e-mailed to: (b) (6)

Budget Period: 06/01/2014 - 05/31/2015 Project Period: 06/01/2014 - 05/31/2019

Dear Business Official:

The National Institutes of Health hereby awards a grant in the amount of \$666,442 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01Al110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website http://grants.nih.gov/grants/policy/coi/ for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV.

Sincerely yours,

Laura A. Pone Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

SECTION I – AWARD DATA – 1R01AI110964-01

\$167,708
\$54,168
\$21,400
\$35,918
\$10,000
\$227,663
\$516,857
\$149,585
\$666,442
\$666,442
\$666,442
••••• <i>· ·</i> •

AMOUNT OF THIS ACTION (FEDERAL SHARE)

\$666,442

SUMMARY TOTALS FOR ALL YEARS						
YR	THIS AWARD	CUMULATIVE TOTALS				
1	\$666,442	\$666,442				
2	\$630,445	\$630,445				
3	\$611,090	\$611,090				
4	\$597,112	\$597,112				
5	\$581,646	\$581,646				

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

Fiscal Information:

CFDA Number:	93.855
EIN:	1311726494A1
Document Number:	RAI110964A

PMS Account Type:	P (Subaccount)
Fiscal Year:	2014

IC	CAN	2014	2015	2016	2017	2018
AI	8472350	\$666,442	\$630,445	\$611,090	\$597,112	\$581,646

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

NIH Administrative Data:

PCC: M51C / OC: 414A / Released: ^{(b) (6)} 05/20/2014 Award Processed: 05/08/2014 01:52:21 PM

SECTION II - PAYMENT/HOTLINE INFORMATION - 1R01AI110964-01

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant_nih.gov/grant_/policy/awardcondition_htm</u>

SECTION III - TERMS AND CONDITIONS - 1R01AI110964-01

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

a. The grant program legislation and program regulation cited in this Notice of Award.

- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.
- c. 45 CFR Part 74 or 45 CFR Part 92 as applicable.
- d. The NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at <u>http://grants.nih.gov/grants/policy/awardconditions.htm</u> for certain references cited above.)

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the Central Contractor Registration. Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing this requirement and other additional information.

This award has been assigned the Federal Award Identification Number (FAIN) R01AI110964. Recipients must document the assigned FAIN on each consortium/subaward issued under this award.

Based on the project period start date of this project, this award is likely subject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170. There are conditions that may exclude this award; see http://grants.nih.gov/grants/policy/awardconditions.htm for additional award applicability information.

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: http://publicacce____nih.gov/

Treatment of Program Income: Additional Co t

SECTION IV – AI Special Terms and Conditions – 1R01AI110964-01

THIS AWARD CONTAINS GRANT SPECIFIC RESTRICTIONS. THESE RESTRICTIONS MAY ONLY BE LIFTED BY A REVISED NOTICE OF AWARD.

RESTRICTION: This award is issued with the knowledge that subjects may be involved within the period of support, but definite plans were not set forth in the application as per 45 CFR 46.118. No human subjects may be involved in any project supported by this award until all requirements for Human Subjects research as identified in the PHS398/SF424 Instructions have been provided to and approved by NIH.

RESTRICTION: The present award is being made without a currently valid certification of IRB approval for this project with the following restriction: Only activities that are clearly severable and independent from activities that involve human subjects may be conducted pending the NIAID's acceptance of the certification of IRB review and approval.

No funds may be drawn down from the payment system and no obligations may be made against Federal funds for any research involving human subjects prior to the NIAID's notification to the grantee that the identified issues have been resolved and this restriction removed.

Page-4

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This award includes funds for subcontract/consortium activity with <u>Wuhan Institute of Virology</u>, <u>CHINA</u> and is budgeted as follows:

| -Yr ′                | 1 -Y      | r 2       | -Yr 3     | -Yr 4     | -Yr 5     |
|----------------------|-----------|-----------|-----------|-----------|-----------|
| Total Direct Costs   | \$123,699 | \$128,718 | \$147,335 | \$147,335 | \$147,335 |
| F&A Costs @ 8%(MTDC) | \$9,896   | \$10,297  | \$11,787  | \$11,787  | \$11,787  |
| TOTAL COSTS          | \$133,595 | \$139,015 | \$159,122 | \$159,122 | \$159,122 |

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

# This award includes funds for subcontract/consortium activity with <u>East China Normal University</u>, CHINA and is budgeted as follows:

| -Yr                  | 1        | -Yr 2    | -Yr 3    | -Yr 4    | -Yr 5    |
|----------------------|----------|----------|----------|----------|----------|
| Total Direct Costs   | \$87,100 | \$67,300 | \$50,108 | \$39,167 | \$14,850 |
| F&A Costs @ 8%(MTDC) | \$6,968  | \$5,384  | \$4,009  | \$3,133  | \$2,404  |
| TOTAL COSTS          | \$94,068 | \$72,684 | \$54,117 | \$42,300 | \$32,454 |

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

## Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well a change in on going e periment that would require change in the bio afety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be a umed an approval to other individual who conduct the ame re tricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www\_electagent\_gov/Regulation\_html)

## Highly Pathogenic Agent

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment afety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/oh/bio\_fty/bmbl5/bmbl5/bmbl5toc.htm</u>) Re earch funded under thi grant must adhere to the BMBL, including using the BMBL-recommended biocontainment level at a minimum If your In titutional Bio afety Committee (or equivalent body) or de ignated institutional biosafety official recommend a higher biocontainment level, the highest recommended containment level mu t be u ed

When submitting future Progress Reports indicate at the beginning of the report:

If no research with a Highly Pathogenic Agent or Select Agent has been performed or is planned to be performed under thi grant

If your IBC or equivalent body or official ha determined, for e ample, by conducting a ri k assessment, that the work being planned or performed under this grant may be conducted at a biocontainment afety level that i lower than BSL3

If the work involve Select Agent and/or Highly Pathogenic Agent, al o addre the following points:

Any changes in the use of the Agent(s) or Toxin(s) including its restricted experiments that have re ulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, as determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide:

o A list of the new and/or additional Agent(s) that will be studied;

o A description of the work that will be done with the Agent(s), and whether or not the work is a restricted experiment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operates the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official. It is important to note if the work is being done in a new location.

## STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

| <b>Grants Management Special</b>  | l <b>ist</b> : Laura A. Pone |                   |
|-----------------------------------|------------------------------|-------------------|
| <b>Email</b> : <sup>(b) (6)</sup> | Phone: (b) (6)               | Fax: 301-493-0597 |

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

## SPREADSHEET SUMMARY GRANT NUMBER: 1R01AI110964-01

**INSTITUTION:** ECOHEALTH ALLIANCE, INC.

| Budget                      | Year 1    | Year 2    | Year 3    | Year 4    | Year 5    |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|
| Salarie and Wage            | \$167,708 | \$167,708 | \$167,708 | \$167,708 | \$167,708 |
| Fringe Benefit              | \$54,168  | \$54,168  | \$54,168  | \$54,168  | \$54,168  |
| Supplie                     | \$21,400  | \$19,250  | \$7,250   | \$7,000   | \$3,500   |
| Travel Co t                 | \$35,918  | \$35,918  | \$35,918  | \$35,918  | \$35,918  |
| Other Co t                  | \$10,000  | \$13,550  | \$11,050  | \$9,800   | \$9,400   |
| Con ortium/Contractual Co t | \$227,663 | \$211,699 | \$213,239 | \$201,422 | \$191,576 |
| TOTAL FEDERAL DC            | \$516,857 | \$502,293 | \$489,333 | \$476,016 | \$462,270 |
| TOTAL FEDERAL F&A           | \$149,585 | \$128,152 | \$121,757 | \$121,096 | \$119,376 |
| TOTAL COST                  | \$666,442 | \$630,445 | \$611,090 | \$597,112 | \$581,646 |

| Facilities and Administrative | Year 1    | Year 2    | Year 3    | Year 4    | Year 5    |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| Co t                          |           |           |           |           |           |
| F&A Co t Rate 1               | 44 1%     | 44 1%     | 44 1%     | 44 1%     | 44 1%     |
| F&A Cot Bae 1                 | \$339,194 | \$290,594 | \$276,094 | \$274,594 | \$270,694 |
| F&A Cot 1                     | \$149,585 | \$128,152 | \$121,757 | \$121,096 | \$119,376 |



RESEARCH Department of Health and Human Services National Institutes of Health

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Grant Number: 2R01AI110964-06 REVISED FAIN: R01AI110964

Principal Investigator(s):

PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Dr. Daszak, Peter PD/PI 460 West 34th Street Suite 1701 New York, NY 100012320

Award e-mailed to: (b) (6)

## Period Of Performance: Budget Period: 07/24/2019 - 06/30/2020 Project Period: 06/01/2014 - 06/30/2024

Dear Business Official:

The National Institutes of Health hereby revises this award to reflect a decrease in the amount of \$71,770 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01AI110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website

<u>http://grants.nih.gov/grants/policy/coi/</u> for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV

Sincerely your,

Tseday G Girma Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

| SECTION I – AWARD DATA – 2R01AI110964-06 REVISED        |             |
|---------------------------------------------------------|-------------|
| Award Calculation (U.S. Dollars)                        |             |
| Salaries and Wages                                      | \$170,123   |
| Fringe Benefits                                         | \$53,590    |
| Personnel Costs (Subtotal)                              | \$223,713   |
| Consultant Services                                     | \$49,750    |
| Materials & Supplies                                    | \$20,850    |
| Travel                                                  | \$15,027    |
| Subawards/Consortium/Contractual Costs                  | \$229,651   |
| Federal Direct Costs                                    | \$538,991   |
| Federal F&A Costs                                       | \$122,989   |
| Approved Budget                                         | \$661,980   |
| Total Amount of Federal Funds Obligated (Federal Share) | \$661,980   |
| TOTAL FEDERAL AWARD AMOUNT                              | \$661,980   |
| AMOUNT OF THIS ACTION (FEDERAL SHARE)                   | (\$-71,770) |

| SUMMARY TOTALS FOR ALL YEARS    |           |           |  |  |  |
|---------------------------------|-----------|-----------|--|--|--|
| YR THIS AWARD CUMULATIVE TOTALS |           |           |  |  |  |
| 6                               | \$661,980 | \$661,980 |  |  |  |
| 7                               | \$637,980 | \$637,980 |  |  |  |
| 8                               | \$637,980 | \$637,980 |  |  |  |
| 9                               | \$637,980 | \$637,980 |  |  |  |
| 10                              | \$637,980 | \$637,980 |  |  |  |

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

## **Fiscal Information:**

| CFDA Name:        | Allergy and Infectious Diseases Research |
|-------------------|------------------------------------------|
| CFDA Number:      | 93.855                                   |
| EIN:              | 1311726494A1                             |
| Document Number:  | RAI110964B                               |
| PMS Account Type: | P (Subaccount)                           |
| Fiscal Year:      | 2019                                     |

| IC | CAN     | 2019      | 2020      | 2021      | 2022      | 2023      |
|----|---------|-----------|-----------|-----------|-----------|-----------|
| AI | 8472364 | \$661,980 | \$637,980 | \$637,980 | \$637,980 | \$637,980 |

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

## NIH Administrative Data:

PCC: M51C B / OC: 414B / Released: <sup>(b) (6)</sup> 08/02/2019 Award Processed: 08/05/2019 12:01:51 AM

# SECTION II - PAYMENT/HOTLINE INFORMATION - 2R01AI110964-06 REVISED

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant\_nih.gov/grant\_/policy/awardcondition\_htm</u>

## SECTION III - TERMS AND CONDITIONS - 2R01AI110964-06 REVISED

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

- a. The grant program legislation and program regulation cited in this Notice of Award.
- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.

- c. 45 CFR Part 75.
- d. National Policy Requirements and all other requirements described in the NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. Federal Award Performance Goals: As required by the periodic report in the RPPR or in the final progress report when applicable.
- f. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at http://grants.nih.gov/grants/policy/awardconditions.htm for certain references cited above.)

**Research and Development (R&D):** All awards issued by the National Institutes of Health (NIH) meet the definition of "Research and Development" at 45 CFR Part§ 75.2. As such, auditees should identify NIH awards as part of the R&D cluster on the Schedule of Expenditures of Federal Awards (SEFA). The auditor should test NIH awards for compliance as instructed in Part V, Clusters of Programs. NIH recognizes that some awards may have another classification for purposes of indirect costs. The auditor is not required to report the disconnect (i.e., the award is classified as R&D for Federal Audit Requirement purposes but non-research for indirect cost rate purposes), unless the auditee is charging indirect costs at a rate other than the rate(s) specified in the award document(s).

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the System for Award Management (SAM). Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing thi requirement and other additional information

Thi award ha been a igned the Federal Award Identification Number (FAIN) R01AI110964 Recipients must document the assigned FAIN on each consortium/subaward issued under this award

Ba ed on the project period tart date of thi project, thi award i likely ubject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170 There are condition that may e clude thi award; ee <a href="http://grants.nih.gov/grants/policy/awardconditions.htm">http://grants.nih.gov/grants/policy/awardconditions.htm</a> for additional award applicability information

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: <u>http://publicacce\_\_\_\_\_nih.gov/</u>

In accordance with the regulatory requirements provided at 45 CFR 75.113 and Appendix XII to 45 CFR Part 75, recipient that have currently active Federal grant , cooperative agreement , and procurement contracts with cumulative total value greater than \$10,000,000 must report and maintain information in the Sy tem for Award Management (SAM) about civil, criminal, and administrative proceedings in connection with the award or performance of a Federal award that reached final di po ition within the mo t recent five year period The recipient mu t al o make semiannual disclosures regarding such proceedings. Proceedings information will be made publicly available in the de ignated integrity and performance y tem (currently the Federal Awardee Performance and Integrity Information System (FAPIIS)). Full reporting requirements and procedure are found in Appendi II to 45 CFR Part 75 Thi term doe not apply to NIH fellowships.

## SECTION IV – AI Special Terms and Conditions – 2R01AI110964-06 REVISED

Clinical Trial Indicator: No

This award does not support any NIH-defined Clinical Trials. See the NIH Grants Policy Statement Section 1.2 for NIH definition of Clinical Trial.

REVISED AWARD: This award is revised to adjust the budget in accordance with the letter from Aleksei Chmura/ECOHealth Alliance.

Supersedes previous Notice of Award dated 07/24/2019.

## \*\*\*\*\*

This Notice of Award (NoA) includes funds for activity with **The University of North Carolina at Chapel Hill** in the amount of **\$77,750** (**\$50,000** direct costs + **\$27,750**F&A costs).

This Notice of Award (NoA) includes funds for activity with **Wuhan Institute of Virology** in the amount of **\$76,301** (**\$70,649** direct costs + **\$5,652** F&A costs).

This Notice of Award (NoA) includes funds for activity with **Institute of Pathogen Biology** in the amount of **\$75,600** (**\$70,000** direct costs + **\$5,600** F&A costs).

### \*\*\*\*\*

The Research Performance Progress Report (RPPR), Section G.9 (Foreign component), includes reporting requirements for all research performed outside of the United States. Research conducted at the following site(s) must be reported in your RPPR:

Wuhan Institute of Virology, CHINA Institute of Pathogen Biology, CHINA East China Normal University, CHINA Duke-NUS Medical School, SINGAPORE

### \*\*\*\*\*

This award reflects current Federal policies regarding Facilities & Administrative (F&A) Costs for foreign grantees including foreign sub-awardees, and domestic awards with foreign sub-awardees. Please see: Chapter 16 Grants to Foreign Organizations, International Organizations, and Domestic Grants with Foreign Components, <u>Section 16.6 "Allowable and Unallowable Cost"</u> of the NIH Grants Policy.

### \*\*\*\*\*

This award may include collaborations with and/or between foreign organizations. Please be advised that short term travel visa expenses are an allowable expense on this grant, if justified as critical and necessary for the conduct of the project.

### \*\*\*\*\*

The budget period anniversary start date for future year(s) will be **July** 1.

### \*\*\*\*\*

Dissemination of study data will be in accord with the Recipient's accepted genomic data sharing plan as stated in the page(s) **203** of the application. Failure to adhere to the sharing plan as mutually agreed upon by the Recipient and the NIAID may result in Enforcement Actions as described in the NIH Grants Policy Statement.

### \*\*\*\*\*

This award is subject to the Clinical Terms of Award referenced in the NIH Guide for Grants and Contracts, July 8, 2002, NOT AI-02-032. These terms and conditions are hereby incorporated by

Page-5

reference, and can be accessed via the following World Wide Web address: <u>https://www.niaid.nih.gov/grants-contracts/niaid-clinical-terms-award</u> All submissions required by the NIAID Clinical Terms of Award must be forwarded electronically or by mail to the responsible NIAID Program Official identified on this Notice of Award.

### \*\*\*\*\*

Awardees who conduct research involving Select Agents (see 42 CFR 73 for the Select Agent list; and 7 CFR 331 and 9 CFR 121 for the relevant animal and plant pathogens at <a href="http://www.selectagents.gov/Regulations.html">http://www.selectagents.gov/Regulations.html</a>) must complete registration with CDC (or APHIS, depending on the agent) before using NIH funds. No funds can be used for research involving Select Agents if the final registration certificate is denied.

Prior to conducting a restricted experiment with a Select Agent or Toxin, awardees must notify the NIAID and must request and receive approval from CDC or APHIS.

### \*\*\*\*\*

## Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well as changes in on-going experiments that would require change in the biosafety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be assumed an approval to other individuals who conduct the same restricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www.selectagents.gov/Regulations.html).

## Highly Pathogenic Agent:

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment safety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/ohs/biosfty/bmbl5/bmbl5/bmbl5toc.htm</u>). Research funded under this grant mu t adhere to the BMBL, including u ing the BMBL recommended biocontainment level at a minimum. If your Institutional Biosafety Committee (or equivalent body) or designated in titutional bio afety official recommend a higher biocontainment level, the highe t recommended containment level must be used.

When ubmitting future Progre Report indicate at the beginning of the report

If no re earch with a Highly Pathogenic Agent or Select Agent ha been performed or i planned to be performed under this grant.

If your IBC or equivalent body or official has determined, for example, by conducting a risk a e ment, that the work being planned or performed under thi grant may be conducted at a biocontainment safety level that is lower than BSL3.

If the work involves Select Agents and/or Highly Pathogenic Agents, also address the following point

Any change in the u e of the Agent() or To in() including it re tricted experiments that have resulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, a determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide

A li t of the new and/or additional Agent() that will be tudied;
A description of the work that will be done with the Agent(s), and whether or not the work i a re tricted e periment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operate the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official It is important to note if the work is being done in a new location.

## **STAFF CONTACTS**

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

Grants Management Specialist: Tseday G GirmaEmail: (b) (6)Phone: (b) (6)

**Fax**: 301-493-0597

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

SPREADSHEET SUMMARY GRANT NUMBER: 2R01AI110964-06 REVISED

**INSTITUTION:** ECOHEALTH ALLIANCE, INC.

| Budget                           | Year 6    | Year 7    | Year 8    | Year 9    | Year 10   |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| Salaries and Wages               | \$170,123 | \$170,123 | \$170,123 | \$170,123 | \$170,123 |
| Fringe Benefits                  | \$53,590  | \$53,590  | \$53,590  | \$53,590  | \$53,590  |
| Personnel Costs (Subtotal)       | \$223,713 | \$223,713 | \$223,713 | \$223,713 | \$223,713 |
| Consultant Services              | \$49,750  | \$49,750  | \$49,750  | \$49,750  | \$49,750  |
| Materials & Supplies             | \$20,850  | \$14,850  | \$14,850  | \$14,850  | \$14,850  |
| Travel                           | \$15,027  | \$15,027  | \$15,027  | \$15,027  | \$15,027  |
| Subawards/Consortium/Contractual | \$229,651 | \$229,651 | \$229,651 | \$229,651 | \$229,651 |
| Co t                             |           |           |           |           |           |
| Publication Co t                 |           | \$6,000   | \$6,000   | \$6,000   | \$6,000   |
| TOTAL FEDERAL DC                 | \$538,991 | \$538,991 | \$538,991 | \$538,991 | \$538,991 |
| TOTAL FEDERAL F&A                | \$122,989 | \$98,989  | \$98,989  | \$98,989  | \$98,989  |
| TOTAL COST                       | \$661,980 | \$637,980 | \$637,980 | \$637,980 | \$637,980 |

| Facilitie and Admini trative Co t | Year 6    | Year 7    | Year 8    | Year 9    | Year 10   |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
| F&A Co t Rate 1                   | 32%       | 32%       | 32%       | 32%       | 32%       |
| F&A Co t Ba e 1                   | \$384,340 | \$309,340 | \$309,340 | \$309,340 | \$309,340 |
| F&A Cot 1                         | \$122,989 | \$98,989  | \$98,989  | \$98,989  | \$98,989  |





Grant Number:1R01Al110964-01FAIN:R01Al110964

Principal Investigator(s): PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Aleksei President 460 West 34th Street 17th Floor New York, NY 100012317

Award e-mailed to: (b) (6)

Budget Period: 06/01/2014 - 05/31/2015 Project Period: 06/01/2014 - 05/31/2019

Dear Business Official:

The National Institutes of Health hereby awards a grant in the amount of \$666,442 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01Al110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website <a href="http://grants.nih.gov/grants/policy/coi/">http://grants.nih.gov/grants/policy/coi/</a> for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV.

Sincerely yours,

# Laura A. Pone Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

#### SECTION I – AWARD DATA – 1R01AI110964-01

| \$167,708   |
|-------------|
| \$54,168    |
| \$21,400    |
| \$35,918    |
| \$10,000    |
| \$227,663   |
|             |
| \$516,857   |
| \$149,585   |
| \$666,442   |
| \$666,442   |
| \$666,442   |
| ••••• · · • |
|             |

#### AMOUNT OF THIS ACTION (FEDERAL SHARE)

\$666,442

| SUMMARY TOTALS FOR ALL YEARS |            |                   |  |  |  |  |
|------------------------------|------------|-------------------|--|--|--|--|
| YR                           | THIS AWARD | CUMULATIVE TOTALS |  |  |  |  |
| 1                            | \$666,442  | \$666,442         |  |  |  |  |
| 2                            | \$630,445  | \$630,445         |  |  |  |  |
| 3                            | \$611,090  | \$611,090         |  |  |  |  |
| 4                            | \$597,112  | \$597,112         |  |  |  |  |
| 5                            | \$581,646  | \$581,646         |  |  |  |  |

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

#### **Fiscal Information:**

| CFDA Number:     | 93.855       |
|------------------|--------------|
| EIN:             | 1311726494A1 |
| Document Number: | RAI110964A   |

| PMS Account Type: | P (Subaccount) |
|-------------------|----------------|
| Fiscal Year:      | 2014           |

| IC | CAN     | 2014      | 2015      | 2016      | 2017      | 2018      |
|----|---------|-----------|-----------|-----------|-----------|-----------|
| AI | 8472350 | \$666,442 | \$630,445 | \$611,090 | \$597,112 | \$581,646 |

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

#### NIH Administrative Data:

PCC: M51C / OC: 414A / Released: <sup>(b) (6)</sup> 05/20/2014 Award Processed: 05/08/2014 01:52:21 PM

#### SECTION II - PAYMENT/HOTLINE INFORMATION - 1R01AI110964-01

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant\_nih.gov/grant\_/policy/awardcondition\_htm</u>

#### SECTION III - TERMS AND CONDITIONS - 1R01AI110964-01

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

a. The grant program legislation and program regulation cited in this Notice of Award.

- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.
- c. 45 CFR Part 74 or 45 CFR Part 92 as applicable.
- d. The NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at <u>http://grants.nih.gov/grants/policy/awardconditions.htm</u> for certain references cited above.)

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the Central Contractor Registration. Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing this requirement and other additional information.

This award has been assigned the Federal Award Identification Number (FAIN) R01AI110964. Recipients must document the assigned FAIN on each consortium/subaward issued under this award.

Based on the project period start date of this project, this award is likely subject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170. There are conditions that may exclude this award; see <a href="http://grants.nih.gov/grants/policy/awardconditions.htm">http://grants.nih.gov/grants/policy/awardconditions.htm</a> for additional award applicability information.

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: http://publicacce\_\_\_\_nih.gov/

**Treatment of Program Income:** Additional Co t

SECTION IV – AI Special Terms and Conditions – 1R01AI110964-01

THIS AWARD CONTAINS GRANT SPECIFIC RESTRICTIONS. THESE RESTRICTIONS MAY ONLY BE LIFTED BY A REVISED NOTICE OF AWARD.

RESTRICTION: This award is issued with the knowledge that subjects may be involved within the period of support, but definite plans were not set forth in the application as per 45 CFR 46.118. No human subjects may be involved in any project supported by this award until all requirements for Human Subjects research as identified in the PHS398/SF424 Instructions have been provided to and approved by NIH.

RESTRICTION: The present award is being made without a currently valid certification of IRB approval for this project with the following restriction: Only activities that are clearly severable and independent from activities that involve human subjects may be conducted pending the NIAID's acceptance of the certification of IRB review and approval.

No funds may be drawn down from the payment system and no obligations may be made against Federal funds for any research involving human subjects prior to the NIAID's notification to the grantee that the identified issues have been resolved and this restriction removed.

Page-4

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This award includes funds for subcontract/consortium activity with <u>Wuhan Institute of Virology</u>, <u>CHINA</u> and is budgeted as follows:

-Yr ′	1 -Y	r 2	-Yr 3	-Yr 4	-Yr 5
Total Direct Costs	\$123,699	\$128,718	\$147,335	\$147,335	\$147,335
F&A Costs @ 8%(MTDC)	\$9,896	\$10,297	\$11,787	\$11,787	\$11,787
TOTAL COSTS	\$133,595	\$139,015	\$159,122	\$159,122	\$159,122

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

This award includes funds for subcontract/consortium activity with <u>East China Normal University</u>, CHINA and is budgeted as follows:

-Yr	1	-Yr 2	-Yr 3	-Yr 4	-Yr 5
Total Direct Costs	\$87,100	\$67,300	\$50,108	\$39,167	\$14,850
F&A Costs @ 8%(MTDC)	\$6,968	\$5,384	\$4,009	\$3,133	\$2,404
TOTAL COSTS	\$94,068	\$72,684	\$54,117	\$42,300	\$32,454

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well a change in on going e periment that would require change in the bio afety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be a umed an approval to other individual who conduct the ame re tricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www_electagent_gov/Regulation_html)

Highly Pathogenic Agent

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment afety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/oh/bio_fty/bmbl5/bmbl5/bmbl5toc.htm</u>) Re earch funded under thi grant must adhere to the BMBL, including using the BMBL-recommended biocontainment level at a minimum If your In titutional Bio afety Committee (or equivalent body) or de ignated institutional biosafety official recommend a higher biocontainment level, the highest recommended containment level mu t be u ed

When submitting future Progress Reports indicate at the beginning of the report:

If no research with a Highly Pathogenic Agent or Select Agent has been performed or is planned to be performed under thi grant

If your IBC or equivalent body or official ha determined, for e ample, by conducting a ri k assessment, that the work being planned or performed under this grant may be conducted at a biocontainment afety level that i lower than BSL3

If the work involve Select Agent and/or Highly Pathogenic Agent, al o addre the following points:

Any changes in the use of the Agent(s) or Toxin(s) including its restricted experiments that have re ulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, as determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide:

o A list of the new and/or additional Agent(s) that will be studied;

o A description of the work that will be done with the Agent(s), and whether or not the work is a restricted experiment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operates the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official. It is important to note if the work is being done in a new location.

STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

Grants Management Special	l ist : Laura A. Pone	
Email : ^{(b) (6)}	Phone: (b) (6)	Fax: 301-493-0597

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

SPREADSHEET SUMMARY GRANT NUMBER: 1R01AI110964-01

INSTITUTION: ECOHEALTH ALLIANCE, INC.

Budget	Year 1	Year 2	Year 3	Year 4	Year 5
Salarie and Wage	\$167,708	\$167,708	\$167,708	\$167,708	\$167,708
Fringe Benefit	\$54,168	\$54,168	\$54,168	\$54,168	\$54,168
Supplie	\$21,400	\$19,250	\$7,250	\$7,000	\$3,500
Travel Co t	\$35,918	\$35,918	\$35,918	\$35,918	\$35,918
Other Co t	\$10,000	\$13,550	\$11,050	\$9,800	\$9,400
Con ortium/Contractual Co t	\$227,663	\$211,699	\$213,239	\$201,422	\$191,576
TOTAL FEDERAL DC	\$516,857	\$502,293	\$489,333	\$476,016	\$462,270
TOTAL FEDERAL F&A	\$149,585	\$128,152	\$121,757	\$121,096	\$119,376
TOTAL COST	\$666,442	\$630,445	\$611,090	\$597,112	\$581,646

Facilities and Administrative	Year 1	Year 2	Year 3	Year 4	Year 5
Co t					
F&A Co t Rate 1	44 1%	44 1%	44 1%	44 1%	44 1%
F&A Cot Bae 1	\$339,194	\$290,594	\$276,094	\$274,594	\$270,694
F&A Cot 1	\$149,585	\$128,152	\$121,757	\$121,096	\$119,376

QVR FACTS

FACTS Data Snapshot for: 2-R01-Al110964-06 (DASZAK, PETER) Understanding the Risk of Bat Coronavirus Emergence

Launch the FACTS System FACTS

Hop to Country Project Information CHINA SINGAPORE

Project Info	
Project Number	2-R01-Al110964-06 (as reflected under competing project number 2-R01-Al110964-06 in FACTS)
PI Name	DASZAK, PETER
Org Name	ECOHEALTH ALLIANCE, INC.
Project Title	Understanding the Risk of Bat Coronavirus Emergence
FY/Project Dates	2019 (Project Period from 2014-06-01 to 2024-06-30)
Project Status	Awarded (05)
Foreign Appl Flag	Domestic Application with Foreign Collaboration (2)

CHINA State Department Clearance Request (SDCR ID 219890) NIAID Contact SDCR ACTIONS ACTION DATES Bernabe, Gayle Approved 2019-05-30 Click the - to hide the Research Objective listed on State Department Clearance. Phone: (b) (6) Approve Submit to State Department 2019-05-30 2019-05-29 This work is an extension and renewal of a previous award, approved under c earances 202191 and 211200. Send to Agency The aims of this research project are to examine the mechanism through which coronaviruses (CoVs) jump 2019-05-28 from animal hosts/reservoirs to humans (spillover events). To accomplish this work the PI and his team will IC Update 2019-05-24 conduct detai ed surveillance for coronaviruses in four provinces: Yuman Guizhou, Guangxi, and Guangdong. 2019-05-10 IC Save The exact sites have not yet been identified; as in the previous award, sites will be se ected from the four provinces as work progresses. Surveil ance will include sampling of wild bat populations. Samples will be collected from animals from each of these sites, and will be analyzed to determine what coronaviruses are present, and whether the viruses are able to infect humans. The investigators p an to collect samples from bats, approximately 5,000 samp es total from 15-20 species across all four provinces. Animals will be captured and lightly anesthetized if necessary. They will be swabbed (mouth/nose, urogenital tract, and rectum), and a small amount of blood will be col ected. If availab e, feces and urine will also be col ected. Nearly all wild bats will be released unharmed after sampling. A small number of bats (maximum of 2 per species) may be euthanized in order to collect ung and intestinal tissue required for characterizing viral receptors. In order to understand whether select strains of bat-borne CoVs utilize receptors found in bats have the potential to infect people, the investigators will use mice that have been genetically modified to express the human receptor for SARS-CoV. The investigators anticipate identifying 5-6 SARS-related-CoVs that will be tested in mice, using approximately 15-20 mice per virus strain. A maximum of 120 mice will be used for this work over the project. All work involving samples and viral isolates from bats will be performed at the Wuhan Institute of Virology. All animal work will be performed by trained individuals in accordance with the American Veterinary Medical Association guidelines, and the project is overseen by veterinarians. This work has also been reviewed and approved by the investigator's Institutional Animal Care and Use Committee. This project will also study human exposure to animal coronaviruses across the same four provinces in southern China. Samples will be collected from each of these sites from individuals who 1) who are highly exposed to bats in community settings, including through hunting, butchering, or general handling within the context of their living or working environment (18+ years old); and 2) patients admitted to hospitals and clinics presenting with disease symptoms of clinically-defined severe/acute respiratory illness (SARI/ARI) or Influenza-like illness (ILI) of unknown origin (12+ years old). Subjects will be enrolled on a vo untary basis and informed consent will be obtained from all participants. Consenting participants will provide biological samples and complete a questionnaire at the time of acute illness and 35 days after resolution of illness. There will be no follow-up among community participants after initial sample collection. The study population will be selected from the Yunnan, Guangxi, Guangdong, and Guizhou provinces of China. They plan to enroll: 1) in 12 clinic sites across the four provinces, 2,750 individuals (accounting for an estimated 40% loss from follow-up); and 2) in 8 community sites, 1,650 individuals per each of the four provinces, poo ed across two sites for each province for a total of 6,660 participants. Enrollment is anticipated to be 100% Asian, with a 50/50 split between males and fema es. All human subject work will be managed by the team at the Institute for Pathogen Biology. Collaborator/Site (Site ID: 262256) Site Flags Budget Period Verified By Verified Date Budget Amt ZHU, GUANGJIAN Animals: Y EAST CHINA NORMAL UNIVERSITY FWA: School of Life Science, B327 Humans: N Science building, 3663 Zhongshan Beilu Shanghai 200062

Collaborator/Site (Site ID: 262253) GUO, LI INSTITUTE OF PATHOGEN BIOLOGY Dong Dan San Tiao, No. 9 Dongcheng District Beijing 100730	Site Flags Animals: N FWA: Y Humans: Y	Budget Period	Budget Amt	Verified By	Verified Date
Collaborator/Site (Site ID: 262252)	Site Flags	Budget Period	Budget Amt	Verified By	Verified Date
REN, L LI INSTITUTE OF PATHOGEN BIOLOGY Dong Dan San Tiao, No. 9 Dongchene District	Animals: N FWA: Y Humans: Y				

https://apps.era.nih.gov/qvr/web/dd_facts_snap.cfm?applid=9819304&sourceCode=CURRENT#

Beijing 100730

PRINT CLOSE Appl Id: 981930

Collaborator/Site (Site ID: 262251) HU, BEN WUHAN INSTITUTE OF VIROLOGY Xiao Hong Shan, No. 44 Wuchang District Wuhan 430071	Site Flags Animals: Y FWA: Humans: N	Budget Period	Budget Amt	Verified By	Verified Date
Collaborator/Site (Site ID: 261948) SHI, ZHENG LI WUHAN INSTITUTE OF VIROLOGY Xiao Hong SHan, No. 44 Wuchang District Wuhan 430071	Site Flags Animals: Y FWA: Humans: N	Budget Period	Budget Amt	Verified By	Verified Date
Collaborator/Site (Site ID: 262250) ZHOU, PENG WUHAN INSTITUTE OF VIROLOGY Xiao Hong SHan, No. 44 Wuchang District Wuhan 430071	Site Flags Animals: Y FWA: Humans: N	Budget Period	Budget Amt	Verified By	Verified Date
SINGAPORE					
State Department Clearance Request (SDCR ID 219753)		NIAID Contact	SDCR	ACTIONS	ACTION DATES
C ick the + to show the Research Objective listed on State Department (Clearance	<u>Bernabe, Gayle</u> Phone: 301-451-10	Send	Approval to Agency it to State Department	2019-05-20 2019-05-20 2019-05-06 2019-05-06 2019-05-01
Collaborator/Site (Site ID: 262258) WANG, LINFA DUKE-NUS MEDICAL SCHOOL	Site Flags Animals: N FWA:	Budget Period	Budget Amt	Verified By	Verified Date
8 College Road Singapore 169857	Humans: N				

Sent:	Mon 4/20/2020 5:34:31 PM (UTC-05:00)			
Subject:	Re: Please read and acknowledge receipt	ot Actions needed regarding 2R	01AI110964-06	
From:	"Lauer, Michael (NIH/OD) [E]" <(b) (6)			
To:		Kevin Olival < ^{(b) (6)}	'(b) (6)	
<(b) (6)				
Cc:	"Black, Jodi (NIH/OD) [E]" <(b) (6)	"Lauer, Michael (NIH/OD) [E]" < <mark>(</mark> b) (6)	
Screen S	hot 2020-04-20 at 4.23.38 PM.png			

Thanks Naomi – not the impression an observer would get looking at the website (see screen shot), but we understand about the grant.

If they "are entirely separate entities" then why does Columbia identify EcoHealth Alliance as an "Affiliation/Department" on its website.

Maybe with the label "Affiliation/Department" you would have a clearly visible disclaimer that says, "EcoHealth Alliance is not affiliated with nor a department of Columbia"? – although even that is internally contradictory.

Best, Mike

From: Naomi Schrag < ^{(b) (6)}	
Date: Monday, April 20, 2020 at 5:19 PM	
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}	Kevin Olival < ^{(b) (6)}
n(b) (6) <(b) (6)	
Cc: Naomi Schrag < ^{(b) (6)}	"Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}
Subject: RE: Please read and acknowledge r	eceipt Actions needed regarding 2R01Al110964-06

Dear Dr. Lauer,

Columbia and EcoHealth Alliance are entirely separate entities. Some individuals affiliated with EcoHealth Alliance do have adjunct appointments in Columbia's Ecology, Evolution, and Environmental Biology ("E3B") department, but we are not aware of any Columbia involvement with the referenced grant, and have found no agreement or record in our grants system to the contrary.

We would be happy to answer any additional questions. Thank you. Sincerely, Naomi Schrag

Naomi J. Schrag Vice President for Research Compliance, Training and Policy Office of Research Compliance and Training 475 Riverside Drive, Suite 840 New York, New York 10115 (b) (6) www.researchcompliance.columbia.edu

From: Lauer, Michael (NIH/OD) [E] < ^{(b) (6)}		
Sent: Monday, April 20, 2020 4:31 PM		
To: Kevin Olival < ^{(b) (6)}	(b) (6)	
Cc: Naomi Schrag < ^{(b) (6)}	Black, Jodi (NIH/OD) [E] < ^{(b) (6)}	Lauer, Michael (NIH/OD) [E]
<(b) (6)		

Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06 Importance: High

Thank you Kevin

- We need to work with a senior responsible business official usually PI's and senior business officials are different people.
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- We need to know all sites in China that have been in any way linked to this award (Type 1 and Type 2). We have data in NIH, but we want to make absolutely sure that we're of the same understanding.

We greatly appreciate your prompt attention to this matter.

Best, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

From: Kevin Olival < ^{(b) (6)}	
Date: Monday, April 20, 2020 at 4:14 PM	
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)}	
Cc: Naomi Schrag < ^{(b) (6)}	"Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}
Subject: Re: Please read and acknowledge read	eceipt Actions needed regarding 2R01Al110964-06

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I received the attached letter, however please note:

1. I am not the PI on this award. You should contact Dr. Peter Daszak ((b) (6)	5)	who is the PI and leading this
project for EcoHealth Alliance.		

2. Columbia University is not involved in this NIH project, and it is not clear to me why Naomi and Columbia University were included.

Thank you, Kevin

Kevin J. Olival, PhD Vice President for Research

EcoHealth Alliance 460 West 34th Street, Suite 1701 New York, NY 10001

(b) (6) (direct) (b) (6) (mobile)

1.212.380.4465 (fax)

www.ecohealthalliance.org

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

On Apr 20, 2020, at 2:16 PM, Lauer, Michael (NIH/OD) [E] <^{(b) (6)} wrote:

Many thanks Naomi – it would be helpful for us to know about all China-based participants in this work since the Type 1 grant started in 2014 – who they were and how much money they received. The sooner you can get us that information, the better.

Best, Mike

From: Naomi Schrag < ^{(b) (6)}
Date: Sunday, April 19, 2020 at 11:59 AM
To: "Lauer, Michael (NIH/OD) [E]" < ^{(b) (6)} " ^{(b) (6)}
< ^{(b) (6)} Naomi Schrag < ^{(b) (6)}
Cc: "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}
Subject: RE: Please read and acknowledge receipt Actions needed regarding 2R01AI110964-06
Dear Dr. Lauer,
l am acknowledging receipt of this letter and will get back to you as soon as I can.
Sincerely, Naomi Schrag
From: Lauer, Michael (NIH/OD) [E] < ^{(b) (6)}
Sent: Sunday, April 19, 2020 11:00 AM
To: ^{(b) (6)} Naomi Schrag < ^{(b) (6)}
Cc: Black, Jodi (NIH/OD) [E] < ^{(b) (6)}
Subject: Please read and acknowledge receipt Actions needed regarding 2R01AI110964-06
Importance: High
Dear Dr. Olival and Ms. Schrag
Please see attached.
Many thanks, Mike
Michael S Lauer, MD NIH Deputy Director for Extramural Research

NIH Deputy Director for Extramural Re 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

<EcoHealth Alliance re Al grant 4 19 20.pdf>



Ecology, Evolution and Environmental Biology

HOME ABOUT FACULTY E3B COMMUNITY E3B SEMINARS PROSPECTIVE STUDENTS

FACULTY

OLIVAL, KEVIN J.

AFFILIATION/DEPARTMENT

EcoHealth Alliance

TELEPHONE

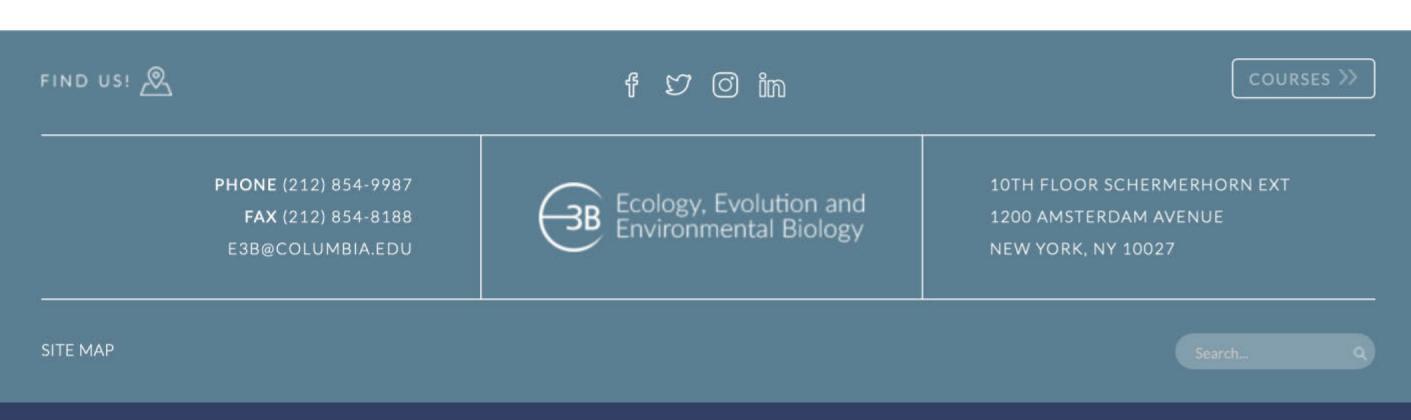
(b) (6)

EMAIL

(b) (6)

WEBSITE https://www.ecohealthalliance.org/personnel/dr-kevin-j-olival

BACK TO FACULTY >>



From: To:	"Lauer, Michael (NIH/OD) [E]" < ^(b) "Black, Jodi (NIH/OD) [E]" < ^(b)	(6)			
Cc:	"Lauer, Michael (NIH/OD) [E] <(b)	(6)	"Bulls, Michelle G. (N		
	, Tara (NIH/OD) [E]" <(b) (6)		\approx Review < (b) (6)		
	FW: Please read and acknowledge			1110964-06	
Sent:	Tue 4/21/2020 6:30:50 PM (UTC-0				
	h Alliance re Al grant 4 19 20[2].pdf	,			
	AI110964-06.pdf				
NoA R01/	AI110964-01.pdf				
		1 \ (5)			
Hi Jodi –	\cdot as we discussed and please note. (b) (5)		; we are waiting for La	rry to circle back to us
on that a	as well.				
Many th	anks, Mike				
From: "	Lauer, Michael (NIH/OD) [E]" < ^(b)	(0)			
Date: T	uesday, April 21, 2020 at 7:28 PN	Λ			
	er Daszak < ^{(b) (6)}				
	ck, Jodi (NIH/OD) [E]" < ^{(b) (6)}	Aleksei	Chmura < ^{(b) (6)}		"Stemmy, Erik
	AID) [E]" < ^{(b) (6)}		(NIH/NIAID) [E]" < ^(b)	(6)	
•		Erbelaing, Emily			"Lauer,
	l (NIH/OD) [E]" < ^{(b) (6)}				
Subject	: Re: Please read and acknowled	ge receipt Actions	needed regarding 2	R01AI110964-06	
Many th	anks Peter for your response.				
-					

We note that:

- No monies have gone to WIV on the Type 2 award and no contract has been signed.
- You agree that you will not provide any funds to WIV until and unless directed otherwise by NIH.
- All foreign sites for the Type 1 and Type 2 awards have been documented in the progress reports submitted to NIH.

We appreciate your working with us.

Best, Mike

Michael S Lauer, MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

From: Peter Daszak < ^{(b) (6)}		
Date: Tuesday, April 21, 2020 at 7:07 PM		
To: "Lauer, Michael (NIH/OD) [E]" <(b) (6)		
Cc: "Black, Jodi (NIH/OD) [E]" < ^{(b) (6)}	Aleksei Chmura < ^{(b) (6)}	"Stemmy, Erik
(NIH/NIAID) [E]" < ^{(b) (6)}	"Erbelding, Emily (NIH/NIAID) [E]" < ^{(b) (6)}	
Subject: RE: Please read and acknowledge	receipt Actions needed regarding 2R01AI110964-06	

Dear Michael - Confirming receipt of your email. I'm also cc'ing the following people so they're aware of this request:

- 1. Our AOR Dr. Aleksei Chmura, who has access to all our records
- 2. My Program Officer for this award, Dr. Erik Stemmy & the Division Director (DMID), Dr. Emily Erberding, so they are informed and aware of the request and our response.

That said we need some time to go through the request for information and will provide this as quickly as we can.

However, I can categorically state that no funds form 2R01AI110964-06 have been sent to Wuhan Institute of Virology, nor has any contract been signed. <u>Furthermore, we will comply with NIAID requirements, of course.</u>

Concerning the request for information on all of the sites linked to this award in China, you should be aware that these are documented in our progress reports over the course of the grant. As you can understand we are under enormous pressure to generate data related to the current pandemic, and we do not want to divert staff to this effort. We are hoping the previously filed reports will satisfy this request.

We are well aware of the political concerns over the origins of this outbreak. Our collaboration with Wuhan Institute of Virology has been scientific and we have been consistently impressed with the scientific capabilities of that laboratory and its research staff. Our joint work has led to a series of critical papers published in high impact journals that served to raise awareness of the future threat coronaviruses pose for global health and therefore US national security. Scientific insights with epidemiological significance have been jointly published and our relationship has always been open and transparent and with one concern only, scientific validity. We are concerned that current actions may jeopardize 15 years of fruitful collaboration with colleagues in Wuhan, who are working at the leading edge to design vaccines and drugs that could help us fight this new threat in future years. It is quite remarkable that of the 5 vaccine candidates listed by WHO that are already in human trials, 3 have been developed in China. That said, we of course will do all we can to make sure any further questions from NIH or any Federal agency are addressed to our fullest knowledge.

Yours sincerely,

Peter Daszak President

EcoHealth Alliance 460 West 34th Street New York, NY 10001 USA

Tel.:^{(b) (6)}

Website: <u>www.ecohealthalliance.org</u> Twitter: <u>@PeterDaszak</u>

EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation

From: Lauer, Michael (NIH/OD) [E] <(b) (6)		
Sent: Monday, April 20, 2020 4:31 PM		
To: Kevin Olival < ^{(b) (6)}	Peter Daszak < ^{(b) (6)}	
Cc: Naomi Schrag < ^{(b) (6)} < ^{(b) (6)}	Black, Jodi (NIH/OD) [E] < ^{(b) (6)}	Lauer, Michael (NIH/OD) [E]

Subject: Re: Please read and acknowledge receipt -- Actions needed regarding 2R01Al110964-06 Importance: High

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Thank you,
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Kevin J. Olival, PhD
Vice President for Research
EcoHealth Alliance
460 West 34th Street, Suite 1701
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Dear Dr. Olival and Ms. Schrag

Please see attached.

Many thanks, Mike

Michael S Lauer MD NIH Deputy Director for Extramural Research 1 Center Drive, Building 1, Room 144 Bethesda, MD 20892 Phone: (b) (6) Email: (b) (6)

<EcoHealth Alliance re Al grant 4 19 20.pdf>

Date:	April 19, 2020	
From:	Michael S Lauer, MD NIH Deputy Director for Extramural Research	Lauer, Michael Digitally signed by Lauer, Michael (NIH/OD) [E] (NIH/OD) [E] Date: 2020.04.19 10:47:40 -04'00'
To:	Kevin Olival, PhD Vice-President for Research EcoHealth Alliance (b) (6)	
	Naomi Schrag, JD Vice-President for Research Compliance, Traini Columbia University (b) (6)	ng, and Policy

Subject: Project Number 2R01AI110964-06

Dear Dr. Olival and Ms. Schrag:

EcoHealth Alliance, Inc. is the recipient, as grantee, of an NIH grant entitled "Understanding the Risk of Bat Coronavirus Emergence." It is our understanding that one of the sub-recipients of the grant funds is the Wuhan Institute of Virology ("WIV"). It is our understanding that WIV studies the interaction between corona viruses and bats. The scientific community believes that the coronavirus causing COVID-19 jumped from bats to humans likely in Wuhan where the COVID-19 pandemic began. There are now allegations that the current crisis was precipitated by the release from WIV of the coronavirus responsible for COVID-19. Given these concerns, we are pursuing suspension of WIV from participation in Federal programs.

While we review these allegations during the period of suspension, you are instructed to cease providing any funds from the above noted grant to the WIV. This temporary action is authorized by 45 C.F.R. § 75.371(d) ("Initiate suspension or debarment proceedings as authorized under 2 C.F.R. part 180"). The incorporated OMB provision provides that the funding agency may, through suspension, immediately and temporarily exclude from Federal programs persons who are not presently responsible where "immediate action is necessary to protect the public interest." 2 C.F.R. § 180.700(c). It is in the public interest that NIH ensure that a sub-recipient has taken all appropriate precautions to prevent the release of pathogens that it is studying. This suspension of the sub-recipient does not affect the remainder of your grant assuming that no grant funds are provided to WIV following receipt of this email during the period of suspension.



RESEARCH Department of Health and Human Services National Institutes of Health

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Grant Number: 2R01AI110964-06 REVISED FAIN: R01AI110964

Principal Investigator(s):

PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Dr. Daszak, Peter PD/PI 460 West 34th Street Suite 1701 New York, NY 100012320

Award e-mailed to: (b) (6)

Period Of Performance: Budget Period: 07/24/2019 - 06/30/2020 Project Period: 06/01/2014 - 06/30/2024

Dear Business Official:

The National Institutes of Health hereby revises this award to reflect a decrease in the amount of \$71,770 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01AI110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website

<u>http://grants.nih.gov/grants/policy/coi/</u> for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV

Sincerely your,

Tseday G Girma Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

SECTION I – AWARD DATA – 2R01AI110964-06 REVISED	
Award Calculation (U.S. Dollars)	
Salaries and Wages	\$170,123
Fringe Benefits	\$53,590
Personnel Costs (Subtotal)	\$223,713
Consultant Services	\$49,750
Materials & Supplies	\$20,850
Travel	\$15,027
Subawards/Consortium/Contractual Costs	\$229,651
Federal Direct Costs	\$538,991
Federal F&A Costs	\$122,989
Approved Budget	\$661,980
Total Amount of Federal Funds Obligated (Federal Share)	\$661,980
TOTAL FEDERAL AWARD AMOUNT	\$661,980
AMOUNT OF THIS ACTION (FEDERAL SHARE)	(\$-71,770)

SUMMARY TOTALS FOR ALL YEARS				
YR	THIS AWARD	CUMULATIVE TOTALS		
6	\$661,980	\$661,980		
7	\$637,980	\$637,980		
8	\$637,980	\$637,980		
9	\$637,980	\$637,980		
10	\$637,980	\$637,980		

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

Fiscal Information:

CFDA Name:	Allergy and Infectious Diseases Research
CFDA Number:	93.855
EIN:	1311726494A1
Document Number:	RAI110964B
PMS Account Type:	P (Subaccount)
Fiscal Year:	2019

IC	CAN	2019	2020	2021	2022	2023
AI	8472364	\$661,980	\$637,980	\$637,980	\$637,980	\$637,980

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

NIH Administrative Data:

PCC: M51C B / OC: 414B / Released: ^{(b) (6)} 08/02/2019 Award Processed: 08/05/2019 12:01:51 AM

SECTION II - PAYMENT/HOTLINE INFORMATION - 2R01AI110964-06 REVISED

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant_nih.gov/grant_/policy/awardcondition_htm</u>

SECTION III - TERMS AND CONDITIONS - 2R01AI110964-06 REVISED

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

- a. The grant program legislation and program regulation cited in this Notice of Award.
- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.

- c. 45 CFR Part 75.
- d. National Policy Requirements and all other requirements described in the NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. Federal Award Performance Goals: As required by the periodic report in the RPPR or in the final progress report when applicable.
- f. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at http://grants.nih.gov/grants/policy/awardconditions.htm for certain references cited above.)

Research and Development (R&D): All awards issued by the National Institutes of Health (NIH) meet the definition of "Research and Development" at 45 CFR Part§ 75.2. As such, auditees should identify NIH awards as part of the R&D cluster on the Schedule of Expenditures of Federal Awards (SEFA). The auditor should test NIH awards for compliance as instructed in Part V, Clusters of Programs. NIH recognizes that some awards may have another classification for purposes of indirect costs. The auditor is not required to report the disconnect (i.e., the award is classified as R&D for Federal Audit Requirement purposes but non-research for indirect cost rate purposes), unless the auditee is charging indirect costs at a rate other than the rate(s) specified in the award document(s).

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the System for Award Management (SAM). Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing thi requirement and other additional information

Thi award ha been a igned the Federal Award Identification Number (FAIN) R01AI110964 Recipients must document the assigned FAIN on each consortium/subaward issued under this award

Ba ed on the project period tart date of thi project, thi award i likely ubject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170 There are condition that may e clude thi award; ee http://grants.nih.gov/grants/policy/awardconditions.htm for additional award applicability information

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: <u>http://publicacce_____nih.gov/</u>

In accordance with the regulatory requirements provided at 45 CFR 75.113 and Appendix XII to 45 CFR Part 75, recipient that have currently active Federal grant , cooperative agreement , and procurement contracts with cumulative total value greater than \$10,000,000 must report and maintain information in the Sy tem for Award Management (SAM) about civil, criminal, and administrative proceedings in connection with the award or performance of a Federal award that reached final di po ition within the mo t recent five year period The recipient mu t al o make semiannual disclosures regarding such proceedings. Proceedings information will be made publicly available in the de ignated integrity and performance y tem (currently the Federal Awardee Performance and Integrity Information System (FAPIIS)). Full reporting requirements and procedure are found in Appendi II to 45 CFR Part 75 Thi term doe not apply to NIH fellowships.

SECTION IV – AI Special Terms and Conditions – 2R01AI110964-06 REVISED

Clinical Trial Indicator: No

This award does not support any NIH-defined Clinical Trials. See the NIH Grants Policy Statement Section 1.2 for NIH definition of Clinical Trial.

REVISED AWARD: This award is revised to adjust the budget in accordance with the letter from Aleksei Chmura/ECOHealth Alliance.

Supersedes previous Notice of Award dated 07/24/2019.

This Notice of Award (NoA) includes funds for activity with **The University of North Carolina at Chapel Hill** in the amount of **\$77,750** (**\$50,000** direct costs + **\$27,750**F&A costs).

This Notice of Award (NoA) includes funds for activity with **Wuhan Institute of Virology** in the amount of **\$76,301** (**\$70,649** direct costs + **\$5,652** F&A costs).

This Notice of Award (NoA) includes funds for activity with **Institute of Pathogen Biology** in the amount of **\$75,600** (**\$70,000** direct costs + **\$5,600** F&A costs).

The Research Performance Progress Report (RPPR), Section G.9 (Foreign component), includes reporting requirements for all research performed outside of the United States. Research conducted at the following site(s) must be reported in your RPPR:

Wuhan Institute of Virology, CHINA Institute of Pathogen Biology, CHINA East China Normal University, CHINA Duke-NUS Medical School, SINGAPORE

This award reflects current Federal policies regarding Facilities & Administrative (F&A) Costs for foreign grantees including foreign sub-awardees, and domestic awards with foreign sub-awardees. Please see: Chapter 16 Grants to Foreign Organizations, International Organizations, and Domestic Grants with Foreign Components, <u>Section 16.6 "Allowable and Unallowable Cost"</u> of the NIH Grants Policy.

This award may include collaborations with and/or between foreign organizations. Please be advised that short term travel visa expenses are an allowable expense on this grant, if justified as critical and necessary for the conduct of the project.

The budget period anniversary start date for future year(s) will be **July** 1.

Dissemination of study data will be in accord with the Recipient's accepted genomic data sharing plan as stated in the page(s) **203** of the application. Failure to adhere to the sharing plan as mutually agreed upon by the Recipient and the NIAID may result in Enforcement Actions as described in the NIH Grants Policy Statement.

This award is subject to the Clinical Terms of Award referenced in the NIH Guide for Grants and Contracts, July 8, 2002, NOT AI-02-032. These terms and conditions are hereby incorporated by

Page-5

reference, and can be accessed via the following World Wide Web address: <u>https://www.niaid.nih.gov/grants-contracts/niaid-clinical-terms-award</u> All submissions required by the NIAID Clinical Terms of Award must be forwarded electronically or by mail to the responsible NIAID Program Official identified on this Notice of Award.

Awardees who conduct research involving Select Agents (see 42 CFR 73 for the Select Agent list; and 7 CFR 331 and 9 CFR 121 for the relevant animal and plant pathogens at http://www.selectagents.gov/Regulations.html) must complete registration with CDC (or APHIS, depending on the agent) before using NIH funds. No funds can be used for research involving Select Agents if the final registration certificate is denied.

Prior to conducting a restricted experiment with a Select Agent or Toxin, awardees must notify the NIAID and must request and receive approval from CDC or APHIS.

Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well as changes in on-going experiments that would require change in the biosafety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be assumed an approval to other individuals who conduct the same restricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www.selectagents.gov/Regulations.html).

Highly Pathogenic Agent:

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment safety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/ohs/biosfty/bmbl5/bmbl5/bmbl5toc.htm</u>). Research funded under this grant mu t adhere to the BMBL, including u ing the BMBL recommended biocontainment level at a minimum. If your Institutional Biosafety Committee (or equivalent body) or designated in titutional bio afety official recommend a higher biocontainment level, the highe t recommended containment level must be used.

When ubmitting future Progre Report indicate at the beginning of the report

If no re earch with a Highly Pathogenic Agent or Select Agent ha been performed or i planned to be performed under this grant.

If your IBC or equivalent body or official has determined, for example, by conducting a risk a e ment, that the work being planned or performed under thi grant may be conducted at a biocontainment safety level that is lower than BSL3.

If the work involves Select Agents and/or Highly Pathogenic Agents, also address the following point

Any change in the u e of the Agent() or To in() including it re tricted experiments that have resulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, a determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide

A li t of the new and/or additional Agent() that will be tudied;
A description of the work that will be done with the Agent(s), and whether or not the work i a re tricted e periment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operate the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official It is important to note if the work is being done in a new location.

STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

Grants Management Specialist: Tseday G GirmaEmail: (b) (6)Phone: (b) (6)

Fax: 301-493-0597

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

SPREADSHEET SUMMARY GRANT NUMBER: 2R01AI110964-06 REVISED

INSTITUTION: ECOHEALTH ALLIANCE, INC.

Budget	Year 6	Year 7	Year 8	Year 9	Year 10
Salaries and Wages	\$170,123	\$170,123	\$170,123	\$170,123	\$170,123
Fringe Benefits	\$53,590	\$53,590	\$53,590	\$53,590	\$53,590
Personnel Costs (Subtotal)	\$223,713	\$223,713	\$223,713	\$223,713	\$223,713
Consultant Services	\$49,750	\$49,750	\$49,750	\$49,750	\$49,750
Materials & Supplies	\$20,850	\$14,850	\$14,850	\$14,850	\$14,850
Travel	\$15,027	\$15,027	\$15,027	\$15,027	\$15,027
Subawards/Consortium/Contractual	\$229,651	\$229,651	\$229,651	\$229,651	\$229,651
Co t					
Publication Co t		\$6,000	\$6,000	\$6,000	\$6,000
TOTAL FEDERAL DC	\$538,991	\$538,991	\$538,991	\$538,991	\$538,991
TOTAL FEDERAL F&A	\$122,989	\$98,989	\$98,989	\$98,989	\$98,989
TOTAL COST	\$661,980	\$637,980	\$637,980	\$637,980	\$637,980

Facilitie and Admini trative Co t	Year 6	Year 7	Year 8	Year 9	Year 10
F&A Co t Rate 1	32%	32%	32%	32%	32%
F&A Co t Ba e 1	\$384,340	\$309,340	\$309,340	\$309,340	\$309,340
F&A Cot 1	\$122,989	\$98,989	\$98,989	\$98,989	\$98,989





Grant Number:1R01Al110964-01FAIN:R01Al110964

Principal Investigator(s): PETER DASZAK, PHD

Project Title: Understanding the Risk of Bat Coronavirus Emergence

Aleksei President 460 West 34th Street 17th Floor New York, NY 100012317

Award e-mailed to: (b) (6)

Budget Period: 06/01/2014 - 05/31/2015 **Project Period:** 06/01/2014 - 05/31/2019

Dear Business Official:

The National Institutes of Health hereby awards a grant in the amount of \$666,442 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to ECOHEALTH ALLIANCE, INC. in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R01Al110964. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website http://grants.nih.gov/grants/policy/coi/ for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV.

Sincerely yours,

Laura A. Pone Grants Management Officer NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

Additional information follows

SECTION I – AWARD DATA – 1R01AI110964-01

\$167,708
\$54,168
\$21,400
\$35,918
\$10,000
\$227,663
\$516,857
\$149,585
\$666,442
\$666,442
\$666,442
••••• · · •

AMOUNT OF THIS ACTION (FEDERAL SHARE)

\$666,442

SUMMARY TOTALS FOR ALL YEARS					
YR	THIS AWARD	CUMULATIVE TOTALS			
1	\$666,442	\$666,442			
2	\$630,445	\$630,445			
3	\$611,090	\$611,090			
4	\$597,112	\$597,112			
5	\$581,646	\$581,646			

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

Fiscal Information:

CFDA Number:	93.855
EIN:	1311726494A1
Document Number:	RAI110964A

PMS Account Type:	P (Subaccount)	
Fiscal Year:	2014	

IC	CAN	2014	2015	2016	2017	2018
AI	8472350	\$666,442	\$630,445	\$611,090	\$597,112	\$581,646

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

NIH Administrative Data:

PCC: M51C / OC: 414A / Released: ^{(b) (6)} 05/20/2014 Award Processed: 05/08/2014 01:52:21 PM

SECTION II - PAYMENT/HOTLINE INFORMATION - 1R01AI110964-01

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <u>http://grant_nih.gov/grant_/policy/awardcondition_htm</u>

SECTION III - TERMS AND CONDITIONS - 1R01AI110964-01

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

a. The grant program legislation and program regulation cited in this Notice of Award.

- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.
- c. 45 CFR Part 74 or 45 CFR Part 92 as applicable.
- d. The NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- e. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at <u>http://grants.nih.gov/grants/policy/awardconditions.htm</u> for certain references cited above.)

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is subject to Streamlined Noncompeting Award Procedures (SNAP).

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the Central Contractor Registration. Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See

http://grants.nih.gov/grants/policy/awardconditions.htm for the full NIH award term implementing this requirement and other additional information.

This award has been assigned the Federal Award Identification Number (FAIN) R01AI110964. Recipients must document the assigned FAIN on each consortium/subaward issued under this award.

Based on the project period start date of this project, this award is likely subject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170. There are conditions that may exclude this award; see http://grants.nih.gov/grants/policy/awardconditions.htm for additional award applicability information.

In accordance with P L 110 161, compliance with the NIH Public Acce Policy i now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: http://publicacce____nih.gov/

Treatment of Program Income: Additional Co t

SECTION IV – AI Special Terms and Conditions – 1R01AI110964-01

THIS AWARD CONTAINS GRANT SPECIFIC RESTRICTIONS. THESE RESTRICTIONS MAY ONLY BE LIFTED BY A REVISED NOTICE OF AWARD.

RESTRICTION: This award is issued with the knowledge that subjects may be involved within the period of support, but definite plans were not set forth in the application as per 45 CFR 46.118. No human subjects may be involved in any project supported by this award until all requirements for Human Subjects research as identified in the PHS398/SF424 Instructions have been provided to and approved by NIH.

RESTRICTION: The present award is being made without a currently valid certification of IRB approval for this project with the following restriction: Only activities that are clearly severable and independent from activities that involve human subjects may be conducted pending the NIAID's acceptance of the certification of IRB review and approval.

No funds may be drawn down from the payment system and no obligations may be made against Federal funds for any research involving human subjects prior to the NIAID's notification to the grantee that the identified issues have been resolved and this restriction removed.

Page-4

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This award includes funds for subcontract/consortium activity with <u>Wuhan Institute of Virology</u>, <u>CHINA</u> and is budgeted as follows:

| -Yr ′                | 1 -Y      | r 2       | -Yr 3     | -Yr 4     | -Yr 5     |
|----------------------|-----------|-----------|-----------|-----------|-----------|
| Total Direct Costs   | \$123,699 | \$128,718 | \$147,335 | \$147,335 | \$147,335 |
| F&A Costs @ 8%(MTDC) | \$9,896   | \$10,297  | \$11,787  | \$11,787  | \$11,787  |
| TOTAL COSTS          | \$133,595 | \$139,015 | \$159,122 | \$159,122 | \$159,122 |

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

# This award includes funds for subcontract/consortium activity with <u>East China Normal University</u>, CHINA and is budgeted as follows:

| -Yr                  | 1        | -Yr 2    | -Yr 3    | -Yr 4    | -Yr 5    |
|----------------------|----------|----------|----------|----------|----------|
| Total Direct Costs   | \$87,100 | \$67,300 | \$50,108 | \$39,167 | \$14,850 |
| F&A Costs @ 8%(MTDC) | \$6,968  | \$5,384  | \$4,009  | \$3,133  | \$2,404  |
| TOTAL COSTS          | \$94,068 | \$72,684 | \$54,117 | \$42,300 | \$32,454 |

Consortiums are to be established and administered as described in the NIH Grants Policy Statement. This written agreement with the consortium must address the negotiated arrangements for meeting the scientific, administrative, financial, and reporting requirements for this grant.

#### Select Agents:

Awardee of a project that at any time involves a restricted experiment with a select agent, is responsible for notifying and receiving prior approval from the NIAID. Please be advised that changes in the use of a Select Agent will be considered a change in scope and require NIH awarding office prior approval. The approval is necessary for new select agent experiments as well a change in on going e periment that would require change in the bio afety plan and/or biosafety containment level. An approval to conduct a restricted experiment granted to an individual cannot be a umed an approval to other individual who conduct the ame re tricted experiment as defined in the Select Agents Regulation 42 CFR Part 73, Section 13.b (http://www\_electagent\_gov/Regulation\_html)

#### Highly Pathogenic Agent

NIAID defines a Highly Pathogenic Agent as an infectious Agent or Toxin that may warrant a biocontainment afety level of BSL3 or higher according to the current edition of the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL)

(<u>http://www.cdc.gov/OD/oh/bio\_fty/bmbl5/bmbl5/bmbl5toc.htm</u>) Re earch funded under thi grant must adhere to the BMBL, including using the BMBL-recommended biocontainment level at a minimum If your In titutional Bio afety Committee (or equivalent body) or de ignated institutional biosafety official recommend a higher biocontainment level, the highest recommended containment level mu t be u ed

When submitting future Progress Reports indicate at the beginning of the report:

If no research with a Highly Pathogenic Agent or Select Agent has been performed or is planned to be performed under thi grant

If your IBC or equivalent body or official ha determined, for e ample, by conducting a ri k assessment, that the work being planned or performed under this grant may be conducted at a biocontainment afety level that i lower than BSL3

If the work involve Select Agent and/or Highly Pathogenic Agent, al o addre the following points:

Any changes in the use of the Agent(s) or Toxin(s) including its restricted experiments that have re ulted in a change in the required biocontainment level, and any re ultant change in location, if applicable, as determined by your IBC or equivalent body or official.

If work with a new or additional Agent(s)/Toxin(s) is proposed in the upcoming project period, provide:

o A list of the new and/or additional Agent(s) that will be studied;

o A description of the work that will be done with the Agent(s), and whether or not the work is a restricted experiment;

o The title and location for each biocontainment resource/facility, including the name of the organization that operates the facility, and the biocontainment level at which the work will be conducted, with documentation of approval by your IBC or equivalent body or official. It is important to note if the work is being done in a new location.

#### STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

| <b>Grants Management Special</b>  | l <b>ist</b> : Laura A. Pone |                   |
|-----------------------------------|------------------------------|-------------------|
| <b>Email</b> : <sup>(b) (6)</sup> | Phone: (b) (6)               | Fax: 301-493-0597 |

 Program Official: Erik J. Stemmy

 Email:
 (b) (6)
 Phone:
 (b) (6)

#### SPREADSHEET SUMMARY GRANT NUMBER: 1R01AI110964-01

**INSTITUTION:** ECOHEALTH ALLIANCE, INC.

| Budget                      | Year 1    | Year 2    | Year 3    | Year 4    | Year 5    |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|
| Salarie and Wage            | \$167,708 | \$167,708 | \$167,708 | \$167,708 | \$167,708 |
| Fringe Benefit              | \$54,168  | \$54,168  | \$54,168  | \$54,168  | \$54,168  |
| Supplie                     | \$21,400  | \$19,250  | \$7,250   | \$7,000   | \$3,500   |
| Travel Co t                 | \$35,918  | \$35,918  | \$35,918  | \$35,918  | \$35,918  |
| Other Co t                  | \$10,000  | \$13,550  | \$11,050  | \$9,800   | \$9,400   |
| Con ortium/Contractual Co t | \$227,663 | \$211,699 | \$213,239 | \$201,422 | \$191,576 |
| TOTAL FEDERAL DC            | \$516,857 | \$502,293 | \$489,333 | \$476,016 | \$462,270 |
| TOTAL FEDERAL F&A           | \$149,585 | \$128,152 | \$121,757 | \$121,096 | \$119,376 |
| TOTAL COST                  | \$666,442 | \$630,445 | \$611,090 | \$597,112 | \$581,646 |

| Facilities and Administrative | Year 1    | Year 2    | Year 3    | Year 4    | Year 5    |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| Co t                          |           |           |           |           |           |
| F&A Co t Rate 1               | 44 1%     | 44 1%     | 44 1%     | 44 1%     | 44 1%     |
| F&A Cot Bae 1                 | \$339,194 | \$290,594 | \$276,094 | \$274,594 | \$270,694 |
| F&A Cot 1                     | \$149,585 | \$128,152 | \$121,757 | \$121,096 | \$119,376 |

 To:
 Garcia-Malene, Gorka (NIH/OD) [E] <sup>(b) (6)</sup>

 Cc:
 Bordine, Roger (NIH/OD) [E] <sup>(b) (6)</sup>

 Lauer, Michael (NIH/OD) [E] <sup>(b) (6)</sup>
 Lauer, Michael (NIH/OD) [E] <sup>(b) (6)</sup>

 From:
 Lauer, Michael (NIH/OD) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

 (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=90FE9CAE30C64CFBB67ABD568E882796-LAUERM]

 Sent:
 Thur 9/3/2020 10:08:42 PM (UTC-05:00)

 Subject:
 Re: ACTION REQUIRED: FOI Case No. 55058 (Lerner)

 Daszak grant propos-1-1-1[1].pdf

Hi Gorka – yes, that sounds fine.

Many thanks, Mike

From: "Garcia-Malene, Gorka (NIH/OD) [E]" <<sup>(b) (6)</sup> Date: Thursday, September 3, 2020 at 10:39 PM To: "Lauer, Michael (NIH/OD) [E]" <<sup>(b) (6)</sup> Cc: "Bordine, Roger (NIH/OD) [E]" <<sup>(b) (6)</sup> Subject: FW: ACTION REQUIRED: FOI Case No. 55058 (Lerner)

Good evening, Mike -

I hope this email doesn't wake you. It looks like you're online too.

We received a request for copies of (many) grants awarded to EcoHealth. I take it these can be processed and released with appropriate redactions. Please let me know if you disagree. The request is attached.

Let me know if there are any questions.

#### Gorka

From: Moore, Marg (NIH/NIAID) [E] <<sup>(b) (6)</sup> Sent: Thursday, September 3, 2020 11:37 AM To: Garcia-Malene, Gorka (NIH/OD) [E] <<sup>(b) (6)</sup> Cc: NHLBI FOIA REQUEST (NIH/NHLBI) <<sup>(b) (6)</sup> Subject: ACTION REQUIRED: FOI Case No. 55058 (Lerner)

Bordine, Roger (NIH/OD) [E] <<sup>(b) (6)</sup> NIAID FOIA Office <<sup>(b) (6)</sup>

Gorka/Roger: Please see the attached request from Sharon Lerner (the Intercept) logged into FX as Case No. 55058. Ms. Lerner is asking for multiple grants awarded to Peter Daszak/EcoHealth Alliance. Please let us know which grants, if any, you will be denying and what you would like us to process. Additionally, she has requested expedited processing.

I have copied the Service Center on this email as some of the grants belong to Fogarty.

Thank you. Marg From: Sharon Lerner via iFOIA.org <<u>Intercept.139106@mail.ifoia.org</u>> Sent: Thursday, September 3, 2020 10:55 AM To: FOIA-7 <<u>FOIA71@mail.nih.gov</u> Subject: Public Records Request

**Reply ABOVE THIS LINE** 

Dear Robin Schofield:

Attached is a formal request for public records. Please feel free to contact me at <u>sharon.lerner@theintercept.com</u> or at 718-877-5236 with any questions.

Thank you for your assistance.

Sincerely,

| Sharon Lerner                  |
|--------------------------------|
| Investigative Reporter         |
| The Intercept                  |
| sharon.lerner@theintercept.com |

This message was sent via iFOIA.org. If you have questions about iFOIA, please refer to the <u>About page</u> or email <u>ifoia-help@rcfp.org</u>.

This message was sent via *iFOIA.org*.

September 3, 2020

Sharon Lerner The Intercept 114 5th Ave NY NY 10011

Robin Schofield FOIA Officer Department of Health and Human Services National Institute of Health 5601 Fishers Lane Room 6G51 Rockville, MD 20892 301-451-5109 foia@niaid.nih.gov

September 03, 2020

#### FOIA REQUEST

#### Fee waiver requested

Dear FOIA Officer:

Pursuant to the federal Freedom of Information Act, 5 U.S.C. § 552, I request access to and copies of proposals for and all written communications relating to the following grants:

NIH 2020 Understanding Risk of Zoonotic Virus Emergence in EID Hotspots of Southeast Asia Daszak, Peter / Ecohealth Alliance, Inc.

NIH 2019 Understanding the Risk of Bat Coronavirus Emergence Daszak, Peter / Ecohealth Alliance, Inc.

NIH 2018 Understanding the Risk of Bat Coronavirus Emergence Daszak, Peter / Ecohealth Alliance, Inc.

NIH 2017 Understanding the Risk of Bat Coronavirus Emergence Daszak, Peter / Ecohealth Alliance, Inc. \$597,112

NIH 2016 Understanding the Risk of Bat Coronavirus Emergence Daszak, Peter / Ecohealth Alliance, Inc.

NIH 2015 Understanding the Risk of Bat Coronavirus Emergence Daszak, Peter / Ecohealth Alliance, Inc. \$630,445

NIH 2014 Understanding the Risk of Bat Coronavirus Emergence Daszak, Peter / Ecohealth Alliance, Inc. \$666,442

NIH 2012 Risk of Viral Emergence from Bats Daszak, Peter / Ecohealth Alliance, Inc. \$518,980

NIH 2012 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc.

NIH 2012 Comparative Spillover Dynamics of Avian Influenza in Endemic Countries Daszak, Peter / Ecohealth Alliance, Inc. \$300,000

NIH 2010 Risk of Viral Emergence from Bats Daszak, Peter / Ecohealth Alliance, Inc. \$480,423 October, 2012 Daszak, Peter / Ecohealth Alliance inc. \$22,890

NIH 2012 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$6,982

NIH 2011 Risk of Viral Emergence from Bats Daszak, Peter / Ecohealth Alliance, Inc. \$510,005

NIH 2011 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$494,455

NIH 2011 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$266,919

NIH 2010 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$499,998

NIH 2010 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$199,992

NIH 2010 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc.

NIH 2009 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$499,975

NIH 2009 Risk of Viral Emergence from Bats Daszak, Peter / Ecohealth Alliance, Inc. \$535,156

NIH 2003 Anthropogenic change & emerging zoonotic paramyxoviruses Daszak, Peter / Wildlife Trust \$358,606

NIH 2002 Anthropogenic change & emerging zoonotic paramyxoviruses Daszak, Peter / Wildlife Trust \$358,102

NIH 2009 R01 TW The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$204,688

NIH 2009 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$199,698

NIH 2009 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$51,225

NIH 2009 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$46,399

NIH 2008 Risk of Viral Emergence from Bats Daszak, Peter / Ecohealth Alliance, Inc.

NIH 2008 The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$502,356

NIH 2008 R01 TW The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$150,000

NIH 2008 R01 TW The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh Daszak, Peter / Ecohealth Alliance, Inc. \$45,000

NIH 2005 Anthropogenic change &emerging zoonotic paramyxoviruses Daszak, Peter / Ecohealth Alliance, Inc. \$662,576 NIH 2004 Anthropogenic change &emerging zoonotic paramyxoviruses Daszak, Peter / Wildlife Trust \$359,654.

I would like to receive the information in electronic form, preferably emailed to me.

I agree to pay reasonable fees for the processing of this request up to \$. Please notify me before incurring any expenses in excess of that amount.

#### Fee Categorization

For fee categorization purposes, I am a representative of the news media. Through this request, I am gathering information for my journalistic work with The Intercept. The Intercept is an award-winning news organization dedicated to holding the powerful accountable through fearless, adversarial journalism. Its indepth investigations and unflinching analysis focus on politics, war, surveillance, corruption, the environment, technology, criminal justice, the media, and more. Accordingly, I am only required to pay for the direct cost of duplication after the first 100 pages. 5 U.S.C. § 552(a)(4)(A)(ii)(II); id. § 552(a)(4)(A)(iv)(II).

#### Request for Fee Waiver

Please waive any applicable fees. Release of the information is not primarily in my commercial interest and will contribute significantly to public understanding of government operations and activities. 5 U.S.C. 552(a)(4)(A)(iii). All the information I seek is for reporting that will enhance the public understanding of funding for emerging viral diseases.

#### Request for Expedited Processing

Please provide expedited processing of this request which concerns a matter of urgency As a Investigative Reporter, I am primarily engaged in disseminating information. The public has an urgent need for information about the historic funding of research on emerging infectious diseases and coronaviruses because it is a critical piece of understanding the scientific work around the emergence of coronaviruses such as the Sar-CoV2. I certify that my statements concerning the need for expedited processing are true and correct to the best of my knowledge and belief.

#### **Conclusion**

If my request is denied in whole or part, please justify all withholdings by reference to specific exemptions and statutes, as applicable. For each withholding please also explain why your agency "reasonably foresees that disclosure would harm an interest protected by an exemption" or why "disclosure is prohibited by law[.]" 5 U.S.C. § 552(a)(8)(A)(i).

I would appreciate your communicating with me by email or telephone, rather than by mail.

I look forward to your determination regarding my request for expedited processing within 10 calendar days, as the statute requires.

Thank you in advance for your assistance.

Sincerely,

Sharon Lerner

Investigative Reporter, The Intercept

718-877-5236, sharon.lerner@theintercept.com

 To:
 Lauer, Michael (NIH/OD) [E] <sup>(b) (6)</sup>

 Cc:
 Bulls, Michelle G. (NIH/OD) [E] <sup>(b) (6)</sup>
 Black, Jodi (NIH/OD) [E] <sup>(b) (6)</sup>

 From:
 Bulls, Michelle G. (NIH/OD) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=B366F1A4382D44C1BDE626E7730C3DD4-BULLSMG]

 Sent:
 Thur 9/10/2020 11:43:04 AM (UTC-05:00)

 Subject:
 FW: Grant Questions - FBI Inquiry - 1-R01AI110964-01 - 2-R01AI110964-06

 message
 v2.rpmsg

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 To:
 Bulls, Michelle G. (NIH/OD) [E] <sup>(b) (6)</sup>

 Cc:
 Black, Jodi (NIH/OD) [E] <sup>(b) (6)</sup>

 Lauer, Michael (NIH/OD) [E] <sup>(b) (6)</sup>
 Lauer, Michael (NIH/OD) [E] <sup>(b) (6)</sup>

 From:
 Lauer, Michael (NIH/OD) [E][/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

 (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=90FE9CAE30C64CFBB67ABD568E882796-LAUERM]

 Sent:
 Fri 9/11/2020 3:36:36 AM (UTC-05:00)

 Subject:
 Re: Grant Questions - FBI Inquiry - 1-R01AI110964-01 - 2-R01AI110964-06

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 Cc:
 Black, Jodi (NIH/OD) [E] <sup>(b) (6)</sup>

 Bulls, Michelle G. (NIH/OD) [E] <sup>(b) (6)</sup>
 Bulls, Michelle G. (NIH/OD) [E] <sup>(b) (6)</sup>

 From:
 Bulls, Michelle G. (NIH/OD) [E][/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

 (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=B366F1A4382D44C1BDE626E7730C3DD4-BULLSMG]

 Sent:
 Fri 9/11/2020 8:23:41 AM (UTC-05:00)

 Subject:
 RE: Grant Questions - FBI Inquiry - 1-R01AI110964-01 - 2-R01AI110964-06

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 To:
 Lauer, Michael (NIH/OD) [E] <sup>(b) (6)</sup>

 Cc:
 Shannon, Mike (NIH/OD) [E] <sup>(b) (6)</sup>

 From:
 Sanders, Ashley (NIH/OD) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5C048AB16D0C4A6FAF54003725E5868B-SANDERSAM]

 Sent:
 Fri 9/11/2020 3:00:03 PM (UTC-05:00)

 Subject:
 OIG/FBI Inquiry - NIAID 1-R01AI110964-01 - 2-R01AI110964-06

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 To:
 Lauer, Michael (NIH/OD) [E] <sup>(b) (6)</sup>

 From:
 Garcia-Malene, Gorka (NIH/OD) [E][/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

 (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4C4DA0F5E0A0480AAD2A86924CABA7B7-GARCIAMALEN]

 Sent:
 Tue 9/1/2020 5:56:24 PM (UTC-05:00)

 Subject:
 FOIA request 54654

 HHS-NIH-20-1665.pdf

Good afternoon, Mike -

American Oversight filed the attached request, No. 54654, seeking:

All electronic communications (including email messages, complete email chains, calendar invitations, Jabber instant messages, text messages and similar electronic messaging applications (such as Signal, WhatsApp, Twitter DMs), etc., and any attachments thereto) of the following officials *regarding* the Wuhan Institute of Virology and/or the EcoHealth Alliance project *Understanding the Risk of Bat Coronavirus Emergence*, funded under grant R01 Al110964.

- a. Director Francis Collins
- b. Principal Deputy Director Lawrence A. Tabak
- c. Deputy Director for Extramural Research Michael S. Lauer

We issued a denial citing an ongoing investigation, pursuant to FOIA Exemption (b)(7)(A). American Oversight responded as follows:

Is the agency able to confirm whether or not the investigation referenced in the final response letter is the publicly reported intelligence investigation into the origins of the coronavirus, and, specifically, whether it originated at the Wuhan lab? See, e.g., <u>https://www.wsj.com/articles/u-s-intelligence-sifts-evidence-for-origins-of-coronavirus-11587077170?mod=searchresults&page=1&pos=1&mod=article\_inline</u>. If so, we may consider appealing the use of 7(a) in this intelligence (rather than law enforcement) context. But, I'd prefer not to waste your time or ours appealing on this ground if this is not the investigation at issue.

Any advice on how we might respond?

I hope you were truly able to take some time off from work over the weekend.

Gorka

(b) (6)

To: Sanders, Ashley (NIH/OD) [E][<sup>(b) (6)</sup> Cc: Shannon, Mike (NIH/OD) [E][<sup>(b) (6)</sup> Michael (NIH/OD) [E] <sup>(b) (6)</sup> From: Lauer, Michael (NIH/OD) [E][/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=90FE9CAE30C64CFBB67ABD568E882796-LAUERM] Sent: Fri 9/11/2020 3:21:38 PM (UTC-05:00) Subject: Re: OIG/FBI Inquiry - NIAID 1-R01AI110964-01 - 2-R01AI110964-06 message v2.rpmsg

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 Cc:
 Shannon, Mike (NIH/OD) [E] <sup>(b) (6)</sup>

 From:
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 Sent:
 Fri 9/11/2020 4:33:09 PM (UTC-05:00)

 Subject:
 RE: OIG/FBI Inquiry - NIAID 1-R01AI110964-01 - 2-R01AI110964-06

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 (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=90FE9CAE30C64CFBB67ABD568E882796-LAUERM]

 Sent:
 Sun 9/13/2020 12:23:53 PM (UTC-05:00)

 Subject:
 Re: Grant Questions - FBI Inquiry - 1-R01AI110964-01 - 2-R01AI110964-06

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 Sent:
 Mon 9/14/2020 4:00:54 PM (UTC-05:00)

 Subject:
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