

Center for Viral Zoonoses

6. Mahidol University, Faculty of Tropical Medicine	2
7. Mahidol University, Faculty of Veterinary Science	2
8. Mahidol University, Faculty of Science	2
9. CU EIDAS Center 1 (AH) ๑ ๒๒๓๓๓๓๓	1
10. Thailand One Health University Network (THOHUN)	1
11. Thailand Research Fund (TRF)	1
12. Food and Agriculture Organization of the United Nations	3
13. World Health Organization	1
14. U.S. Centers for Disease Control and Prevention/Thailand	2
15. Armed Forces Research Institute for Medical Sciences (AFRIMS) Page 177 of 767	2
Withheld pursuant to exemption (b)(5) - Deliberative Process Privilege	3
16. U.S. Agency for International Development	3
17. U.S. Embassy Bangkok of the Freedom of Information and Privacy Act	1
18. Zoo Park Organization of Thailand	2
19. (b)(6)	1
20. (b)(6)	1
21. (b)(6)	1
22. (b)(6)	1
23. (b)(6)	1
24. (b)(6), Faculty of Law, Thammasat University	1
25. BLQS 1	1
26. The Thailand Research Fund	1
27. TCELS 2	1

28. IHPP 1		1
29. (b)(6) Epidemiology Unit, Faculty of Medicine, Songklanakarin University		1
30. King Mongkut's University of Technology Thonburi (KMUTT)		1
31. Chiangmai University		1
32. MFA, Department of Treaties and Legal Affairs		1
33. Chulabhorn research institute		1
34. (b)(6)		1
Total		51
(b)(6) the deputy director of Biodiversity-Based Economy Development Office (BEDO)	(b)(6)	

Commented (b)(6) As suggested by GVP team

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working group	Withheld pursuant to exemption	
35. Admin	(b)(5) - Deliberative Process Privilege	4
36. Facilitator	of the Freedom of Information and Privacy Act	4
37. Note Taker		5
38. Rapporteurs		13

Global Virome Project (GVP)

Steering Committee and Working Group Meeting

Beijing, China

6-7 February, 2017

Executive Summary

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Withheld pursuant to exemption

(b)(6) ; (b)(5) - Deliberative Process Privilege
of the Freedom of Information and Privacy Act



Drafted by (b)(6)

with input from:

(b)(6)

Peter Daszak,

(b)(6)

(b)(6)



Executive Summary

The Inaugural Global Virome Project Steering Committee and Working Group Meeting was held on 6-7th February 2017 in Beijing, China. This was the first global in-person meeting on the Global Virome Project (GVP) since the Bellagio Forum in August 2016. Since Bellagio, where 18 transitional steering committee (SC) members identified the goals and vision of the GVP, eleven working groups (WGs) have been formed in three thematic areas: Governance, Science & Technology, and Implementation.

The objectives of this meeting were three-fold: 1.) to report on working group, core group, and steering committee progress made since Bellagio, 2.) to discuss and seek feedback on evolving strategies related to governance, outreach, communication, resource mobilization, and stakeholder engagement, and 3.) to establish and strengthen relationships among working group chairs and the steering committee, identifying issues shared by different groups and planning further collaboration.

1. Progress made since Bellagio

Since May 2016, members of the GVP core group have met with 13 high-level individuals and 20 (philanthropic, academic, multilateral or governmental) organizations. They presented the GVP at 14 conferences or public fora. The Bellagio Initiative statement and briefing documents were published on a new website (globalviromeproject.org) and a newsletter was created for regular distribution. A policy forum paper is under review in an academic journal, and members of the core group have been interviewed in the lay press. The GVP has also been discussed in the popular press.

Working group co-chairs were identified and invited, and each working group compiled and presented the key activities, challenges, and opportunities facing its group.

Several countries have shown significant interest in the GVP, and certain of those countries have been discussed as “countries of opportunity” for launching a first wave of the GVP. These countries include China, which hosted a meeting following this convening on the “China National Virome Project.”

2. Governance, outreach, and communication strategies

The Global Virome Project is coordinated by a core group with representation from USAID, UC Davis, EcoHealth Alliance, and Metabiota. The core group, steering committee, and working group meetings have been partially funded by USAID, while participating working group co-chairs and steering committee members from a host of additional organizations currently participate on a voluntary basis. As this structure is transitional, the long-term organizational structure of the GVP was discussed during the meeting, including the role of a possible Senior Advisory Board. Additionally, the group discussed possible efforts to augment input into the



core group, including tapping into the steering committee on a periodic basis (while taking into account practicalities around time zones, workloads, etc.), following the Beijing meeting. The creation of a freestanding NGO, with an international search for president, was discussed as a plausible governance framework for the long term functioning of the GVP. It was agreed that the GVP should not be a for-profit venture, and that the long-term composition of the overall effort should have diverse global representation.

The team discussed the need to break down the \$3.5 billion total price tag of the GVP into a “menu” of smaller projects. Different ways to break this down – by region, country, species, viral group, or category as well as specific technology contributions – each present their own challenge. Part of the modeling team’s role will be to economically optimize a field sampling strategy based on biodiversity and accessibility, but local capacity and country-specific laws and protocols must be factored into the costs. Beginning in a “first wave” of countries may increase interest in the project and allow other countries to join and jointly fund the project after value has been demonstrated.

The GVP’s scope and goals – particularly, how to communicate the boundaries and scope of such a broad-reaching project and how to ensure the GVP has public health impact beyond academic research – were discussed at length, and this feedback is being incorporated into the mission and vision statements.

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3. Working group intersections and collaboration

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During the session when each of the working groups had short meetings each of the other working groups, areas of overlap were identified. “Sister” working groups – (e.g. metadata platform and data management) – committed to working together to achieve the most scientifically sound and feasible strategies for delivering on the GVP’s goals were also identified.

(b)(6) established a May 1 goal for the first working group deliverables. It was agreed that generally, the strategic planning of the Science & Technology working groups should precede the tactical delivery of the Governance and Implementation working groups.

The way forward

All participants were called upon to present to their networks in upcoming conferences, meetings, and public fora, and the pitch deck and other explanatory materials will be shared with all participants. Many members of the steering committee expressed interest in increasing their involvement, and were invited to reach out to the co-leads of working groups that interested them to join the budding working groups.

There was additionally a commitment to establishing an online hub where working group participants could communicate, upload files, jointly work on documents, and otherwise interact. Thematic leads were tasked with setting up a call schedule for their working groups and working with their groups to develop roadmaps.



Beijing Global Virome Project (GVP) Steering Committee Meeting

Overarching Meeting Objectives:

To provide an update on progress since Bellagio, as well as forge a consensus on the next steps for the GVP to achieve the goals of building a world safe from emerging viral threats and to lay out a clear roadmap for the launch of the GVP that will provide the best possible outcomes for protecting global health.

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Sunday Objective:

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Arrival and Greetings

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of the Freedom of Information and Privacy Act

Sunday, February 5th, 2017 Location: China National Convention Center Grand Hotel Beijing, China	
All day	Arrival and check-in to Conference Hotel
6:30 - 8:30 p.m.	Welcome Dinner (Chinese Restaurant at the hotel, 1st Floor) - Welcoming Remarks, (b)(6)



Beijing Global Virome Project (GVP) Steering Committee Meeting

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To provide an update on progress since Bellagio, as well as forge a consensus on the next steps for the GVP to achieve the goals of building a world safe from emerging viral threats and to lay out a clear roadmap for the launch of the GVP that will provide the best possible outcomes for protecting global health.

Monday Objective:

To provide updates and refocus on the “way forward” agreed upon at Bellagio.

Monday, February 6th, 2017 Location: Zun Yan, 2nd Floor, China National Convention Center Grand Hotel Beijing, China		
8:00 – 9:00 a.m.	Withheld pursuant to exemption (b)(3), (b)(6) - Deliberative Process Privilege Breakfast (2nd Floor)	All Participants Welcome
9:00 - 9:30 a.m.	of the Freedom of Information and Privacy Act Welcoming Remarks and Introductions	(b)(6) Participants (Introductions)
9:30 - 9:40 a.m.	Review of Meeting Agenda & Objectives <i>Brief Remarks</i>	(b)(6)
<u>GVP Status Report Since Bellagio:</u> This session will provide updates on the progress with the GVP since the initial Bellagio meeting in August 2016.		
9:40 - 10:00 a.m.	Updates and Review of Post-Bellagio Planned “Deliverables to Impact” <ul style="list-style-type: none"> ● Developing Structure ● Outreach; Major Lessons and Issues <i>Presentation and Q&A</i>	(b)(6)
10:00 - 10:45	Governance Thematic Area	Thematic & Working Group co-leads



a.m.	<ul style="list-style-type: none"> • Legal, Equity, Social Issues • Advisory/Partnerships <i>Brief presentations, Q&A, & discussion</i>	
10:45 - 11:00 a.m.	Break	All Participants
11:00 - 12:00 p.m.	Science & Technology Thematic Area <ul style="list-style-type: none"> • Lab Platform • Modeling & Risk Analytics • Metadata Platform • Behavioral Risk <i>Brief presentations, Q&A, & discussion</i>	Thematic & Working Group co-leads
12:00 - 1:00 p.m.	Implementation Thematic Area <ul style="list-style-type: none"> • General Management & Partner Engagement • Communications & Outreach • Data Management • Field Operations • Lab & Biosafety Implementation <i>Brief presentations, Q&A, & discussion</i>	Thematic & Working Group co-leads
1:00 - 2:00 p.m.	Lunch (2nd Floor) <ul style="list-style-type: none"> • Group Photo before dispersing for lunch 	All Participants
<p>Strategic Vision: This session will discuss evolving strategies related to outreach, communication, resource mobilization, and stakeholder engagement.</p>		
2:00 - 2:30 p.m.	Establishing Senior Advisory Board <ul style="list-style-type: none"> • Roles and Responsibilities • Suggested Members <i>Facilitated discussion</i>	(b)(6) All Participants
2:30 - 3:15 p.m.	Outreach Update + Discussions <ul style="list-style-type: none"> • Individuals/Organizations/Countries • GVP Documents • Paper status • Website • Newsletter <i>Presentation, discussion, and Q&A</i>	(b)(6)
3:15 - 5:00 p.m.	Evolving Strategy	(b)(6)



<p>(Inclusive of break)</p>	<ul style="list-style-type: none"> ● Honing our strategic thinking for GVP roll out <ul style="list-style-type: none"> ○ Feedback thus far and evolution of messaging ○ Strategic roll-out <ul style="list-style-type: none"> ■ Funding prioritization strategy <ul style="list-style-type: none"> ● Sampling strategy (eco-zones, taxa, etc.) ○ GVP Pitch Deck <ul style="list-style-type: none"> ■ Customizing for the target audience <ul style="list-style-type: none"> ● Resource mobilization ● Engaging technical constituents (ie virologists, conservationists) <p><i>Presentation and facilitated discussion</i> Page 196 of 767</p>	
<p>5:00 - 5:15 p.m.</p>	<p>Summary & Closing Remarks <i>Brief Remarks</i></p> <p><small>Not subject to exemption (b)(5) ; (b)(5) - Deliberative Process Privilege</small></p>	<p>(b)(6)</p>
<p>7:00 – 8:30 p.m.</p>	<p>Dinner</p> <p><small>of the Freedom of Information and Privacy Act</small></p>	<p>All Participants</p>



Beijing Global Virome Project (GVP) Steering Committee Meeting

Overarching Meeting Objectives:

To provide an update on progress since Bellagio, as well as forge a consensus on the next steps for the GVP to achieve the goals of building a world safe from emerging viral threats and to lay out a clear roadmap for the launch of the GVP that will provide the best possible outcomes for protecting global health.

Tuesday Objectives:

Create an opportunity for working group leads to lay the groundwork for areas of shared interest and overlap.

<p style="text-align: center;">Tuesday, February 7th, 2017 Location: Zun Yan, 2nd Floor, China National Convention Center Grand Hotel Beijing, China</p>		
8:00 - 9:00 a.m.	Breakfast (2nd Floor)	All Participants Welcome
9:00 - 9:15 a.m.	Review of Agenda & Plans for Today <i>Brief Remarks</i>	Peter Daszak
<p>Working Groups: This session will focus on “cross-walking” issues/topics that are shared among the working groups; establish lines of communications and identify areas of further shared action.</p>		
9:15 - 9:45 a.m.	Summary of issues and actions discussed on Monday and parking lot issues <ul style="list-style-type: none"> • Senior Advisory Group • Future outreach strategies <i>Summary remarks & Discussion</i>	(b)(6)
9:45 - 11:00 a.m.	Working Groups: Interactive Sessions <ul style="list-style-type: none"> • “Speed Dating” <i>Interactive session</i> <i>Note: Steering Committee to float or join specific WG of their choice</i>	(b)(6) All Participants
11:00 - 11:15 a.m.	Break	All Participants



11:15 - 12:15 p.m.	Report out from Working Group sessions and Summary of next steps <ul style="list-style-type: none"> • What topics identified • Next steps post-Beijing <i>Report out & Discussion</i>	Working Group Co-Leads
12:15 - 1:15 pm.	Lunch (2nd Floor)	All Participants
Parallel Sessions: GVP Working Group Sessions Zun Yan, 2nd Floor, China National Convention Center Grand Hotel China National Virome Project Initiative Meeting Institute of Microbiology, Chinese Academy of Sciences, E301		
1:15 - 4:00 p.m.	Working Group Meeting	Cross-Working Group co-leads meetings
1:30 - 5:00 p.m.	CNVP Initiative Meeting <small>Page 198 of 767</small>	Steering Committee + Core Team + Other Interested Parties
5:00 - 7:00 p.m.	Participant Free Time <small>Withheld pursuant to exemption (b)(5); (b)(5) - Deliberative Process Privilege</small>	All Participants
7:00 – 8:30 p.m.	Dinner <small>of the Freedom of Information and Privacy Act</small>	Participants + CNVP Meeting Attendees



China National Virome Project (CNVP) Initiative Meeting

7 February 2017 2:00 PM
E301 Institute of Microbiology, Chinese Academy of Sciences

Tentative Agenda

1:30-2:00 p.m.	Registration	
2:00-2:20 p.m.	Welcome & Opening Address	(b)(6)
2:20-2:50 p.m.	Introduction of Global Virome Project (GVP)	
2:50-3:10 p.m.	Q & A	
3:10-3:25 p.m.	Presentation	
3:25-3:40 p.m.	Presentation	
3:40-3:55 p.m.	Presentation	
3:55-4:10 p.m.	Presentation	
4:10-4:25 p.m.	Collaborative Viral Discovery Research in China	Peter Daszak
4:25-4:35 p.m.	Brief Summary	(b)(6)
4:35-5:00 p.m.	Discussion-How to initiate the CNVP & Closure	Moderated by (b)(6) & Peter
5:00-7:00 p.m.	Participants free meetings and discussion	

Organization Attending (Tentative)

Ministry of Science and Technology 国家科技部
Veterinary Bureau, Ministry of Agriculture 国家农业部兽医局
National Health and Family Planning Commission 国家卫生与计划生育委员会
Chinese CDC 中国国家疾病预防控制中心
National Natural Science Foundation of China 国家自然科学基金委员会



Beijing Genomics Institute, BGI 华大基因
Harbin Veterinary Research Institute of Chinese Academy of Agricultural Sciences 中国农科院兽医研究所
Wuhan Institute of Virology, Chinese Academy of Sciences 中国科学院武汉病毒所
National Institute for Viral Disease Control and Prevention, China CDC 中国疾控中心病毒病预防控制所
CAS Key Laboratory of Pathogenic Microbiology and Immunology 中科院病原微生物与免疫学重点实验室
Medical School of Zhejiang University, State Key Laboratory of Infectious Diseases Diagnosis and Treatment 浙江大学医学部·浙江大学附属第一医院、传染病诊治国家 重点实验室
National Institute for Communicable Disease Control and Prevention, Chinese CDC 中国疾病预防控制中心传染病预防控制所
National Research Center for Exotic Animal Diseases, Chinese Animal Health and Epidemiology Center 中国动物卫生与流行病学中心·国家外来动物疫病研究中心
Institute of Microbiology and epidemiology, Academy of Military Medical Sciences 军事医学科学院微生物流行病学研究所
National Institute of Infectious Disease Control and Prevention of Chinese CDC, Zoonosis Office 中国疾控中心传染病预防控制所·人兽共患病室
National Research Center of Wildlife Borne Diseases, Institute of Zoology of Chinese Academy Science 中国科学院动物研究所野生动物疫病研究中心
Institute of Veterinary Science, Academy of Military Medical Sciences 人畜共患病研究教育部重点实验室·军事医学科学院军事兽医研究所
China Animal Disease Control Center 中国动物疫病防控中心



Institute of Ecology, Beijing Normal University 北京师范大学
MOH Key Laboratory of Systems Biology of Pathogens, Institute of Pathogen Biology, Chinese Academy of Medical Sciences & Peking Union Medical College 中国科学医学院 / 北京协和医学院 · 病原生物学研究所
Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences 中国科学院深圳先进技术研究所
CAS Center for Influenza Research and Early-Warning (CASCIRE), Chinese Academy of Sciences 中国科学院流感研究与预警中心
East China Normal University 华东师范大学
Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences 中科院上海 生物科学研究所
Department of Epidemic Diseases Monitoring of Wild Animal, State Forestry Administration 国家林业局保护司野生动物疫源疫病防控处 <small>Page 201 of 767 Withheld pursuant to exemption</small>
China Animal Health and Epidemiology Center 中国动物卫生与流行病学中心 <small>(b)(5) : (b)(5) - Deliberative Process Privilege of the Freedom of Information and Privacy Act</small>
Nanjing Institute of Environmental Sciences (NIES), Ministry of Environmental Protection of China 环境保护部南京环境科学研究
Food & Agriculture Organization of the United Nations, China Office 国际粮农组织
China-US Collaborative Program on Emerging and Re-emerging Infectious Diseases, US Embassy
NIAID Office in China
National Science Foundation (NSF) Beijing Office
WHO China Office
World Bank China Office
USAID Beijing

Roundtable Dialogue Toward Establishing a Thailand National Virome Project

October 24-25, 2018

Objectives:

- Further introduce and update status on the Global Virome Project
- Identify and synthesize Thailand’s viral discovery and risk analysis expertise
- Discuss Thailand’s capacities in the context of the GVP, and build consensus around key goals to be achieved in developing a Thailand National Virome Project

Expected Outputs:

- Summary report and synthesis of Thailand’s viral discovery and risk analysis landscape
- Draft roadmap and iterative milestones in developing a Thailand National Virome Project

October 24, 2018

8:30 – 9:00 am	Registration	Page 207 of 767
I. Introduction		Withheld pursuant to exemption (b)(6) – Deliberative Process Privilege
9:00 – 9:30 am	Opening Remarks of the Freedom of Information and Privacy Act	[TBC]
9:30 – 10:45 am	Overview of the Global Virome Project GVP Structure at Global and National Levels - Thematic Areas: o Governance o Science & Technology o Implementation Phased Approach	(b)(6) Requested issues to be covered 1. Background 2. IT infrastructure, Data management & sharing 3. Governance 4. Budget / site 5. Sample repository, sharing and MTA 6. IP 7. Related regulations/int.

Commented (b)(6) In order to avoid too much overlap with the topics in section II. below, maybe here (b)(6) can give the overview of the global need and importance of Thailand for incubation phase and future overall success everywhere, as well as the process to date with Steering Committee & BCG. Agree that other topics listed are critical to cover, but they might flow better below. This overview would flow nicely into the next section as described (GVP Structure & Thematic Areas), but I’m not sure an 1:45 minutes is necessary, so have shortened the times to allow for the other topics to be fleshed out in the agenda.

		protocols 8. Experiences & lesson learned from past projects (conflicts, problems, difficulties) 9. Capacity building 10. Q&A
10:45 – 11:15am	Coffee Break	
II. The Mechanics of the Global Virome Project		
11:15 – 11:45 am	GVP Approach to prioritizing sampling sites	(b)(6)
11:45am – 12:15 pm	GVP Implementation <ul style="list-style-type: none"> • Scientific goals and sampling targets • Capacity strengthening • Experiences & lessons learned globally 	(b)(6)
12:15 – 12:45 pm	Viral Discovery in the Global and Asia Regional Contexts: Key Lessons and Experiences Viral Discovery in Thailand: Key Lessons and Experiences	(b)(6) (b)(5) - Deliberative (b)(5) - Reason and of Inform
12:45 – 1:45 pm	Lunch	
1:45 – 2:15 pm	Ethical, legal, societal implications <ul style="list-style-type: none"> • Sample repository, sharing and MTA • Intellectual Property • Related regulations/int. protocols 	(b)(6)
2:10 – 2:30 pm	Proposed plan for GVP Information Management (IM) <ul style="list-style-type: none"> • IT infrastructure • Data management & sharing 	(b)(6)
2:30 – 3:00 pm	Coffee Break	
III. Thailand's Viral Discovery & Risk Analysis Landscape (7 min each) (What have been done, not details)		

3:00 – 3:10 pm	...	(b)(6)
3:10 – 3:20 pm	Chulalongkorn University, Faculty of Medicine, Center for Viral Zoonoses	
3:20 – 3:30 pm	Mahidol University (Tropical Medicine Faculty)	
3:30 – 3:40 pm	Mahidol University (Faculty of Veterinary Science)	
3:40 – 3:50 pm	Ministry of Science and Technology	
3:50 – 4:00 pm	Ministry of Public Health, Department of Medical Sciences, National Institute of Health (NIH)	
	<i>Short break</i>	
4:10 – 4:20 pm	Ministry of Ag and Cooperatives, National Institute of Animal Health	
4:10 – 4:20 pm	Thailand Research Fund	TBC
4:20 – 4:30 pm	CRI	
4:30 – 4:40 pm	DDC&BIDI? One Health Coordinator?	Page 209 of 767
4:40 – 4:50 pm	AFRIMS or US CDC?/FAO	Withheld pursuant to exemption
		(b)(5) - Deliberative Process Privilege

Commented (b)(6) Each block is awfully short. Can we extend into next day or shorten topics above? We should expect delays if we are allocating 10min for presentation and turnover to next speaker.

of the Freedom of Information and Privacy Act

October 25, 2018

IV. Developing a Thailand Virome Project		
8:30 – 9:00 am	Summary of Thailand's Viral Discovery & Risk Analysis Capacities, Equities, and Expertise	To be presented in a synthesis form, by category (e.g. diagnostics, interface characterization) from previous day's presentations
9:00 – 11:30 am (including coffee break)	Introduction to Group Deliberations and Group Discussion <ul style="list-style-type: none"> - Moderated Breakout Groups to Discuss Structural Options for a Thailand Virome Project - Suggested breakouts: <ul style="list-style-type: none"> o Governance 	

Commented (b)(6) We suggest shortening planned sections on this day to make room for above inserts & longer presentations

	<ul style="list-style-type: none"> ○ Sample sites/hosts & testing ○ Data sharing 	
11:30 – 12:30 pm	Readout of Group Discussions	<p>List of issues to be discussed should be provided</p> <p>Request for information from the previous meeting for preparation of the breakout session</p>
12:30 – 1:30pm	Lunch	
<i>V. Roadmap to a Thailand Virome Project</i>		
1:30 – 3:00 pm	<p>Draft Roadmap Development and Next Steps</p> <ul style="list-style-type: none"> - Presentation of draft roadmap following group recommendations - Key milestones - Q/A 	<p>Page 210 of 767</p> <p>Withheld pursuant to exemption (b)(5) - Deliberative Process Privilege</p>
3:00 – 3:30 pm	Summary and Closing Remarks	(b)(5) - Deliberative Process Privilege

of the Freedom of Information and Privacy Act

Participating Institutions (tentative invitation issuance):

- | | |
|--|---|
| 1. Ministry of Public Health , Department of Medical Sciences (DMSC), National Institute of Health 4 DDC/4 | 8 |
| 2. Ministry of Agriculture and Cooperatives , National Institute for Animal Health (NIAH) | 4 |
| 3. Ministry of Natural Resources and Environment, Department of National Parks (DNP) | 2 |
| 4. Ministry of Science and Technology, National Science Technology Development Agency (NSTDA) | 4 |
| 5. Chulalongkorn University, Faculty of Medicine, Center for Viral Zoonoses | 2 |
| 6. Mahidol University, Faculty of Tropical Medicine | 2 |
| 7. Mahidol University, Faculty of Veterinary Science | 2 |

Commented (b)(6)

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17. U.S. Embassy Bangkok	1
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19. (b)(6)	Withheld pursuant to exemption 2
20. (b)(6)	(b)(5) - Deliberative Process Privilege 1
21. (b)(6)	the Freedom of Information and Privacy Act 1
22. (b)(6)	1
23. (b)(6)	1
24. (b)(6) Faculty of Law, Thammasat University	1
25. BLQS 1	1
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27. TCEs 2	1
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30. King Mongkut's University of Technology Thonburi	1

(KMUTT)

31. Chiangmai University	1
32. MFA, Department of Treaties and Legal Affairs	1
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Total	51
(b)(6) the deputy director of Biodiversity-Based Economy Development Office (BEDO) (b)(6)	

Commented (b)(6): As suggested by GVP team

working group

35. Admin	4
36. Facilitator	4
37. Note Taker	5
38. Rapporteurs	13

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Global Virome Project (GVP)

Steering Committee and Working Group Meeting

Beijing, China

6-7 February, 2017

Executive Summary

Page 233 of 767

Withheld pursuant to exemption

(b)(5) - Deliberative Process Privilege

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Executive Summary

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The objectives of this meeting were three-fold: 1.) to report on working group, core group, and steering committee progress made since Bellagio, 2.) to discuss and seek feedback on evolving strategies related to governance, outreach, communication, resource mobilization, and stakeholder engagement, and 3.) to establish and strengthen relationships among working group chairs and the steering committee, identifying issues shared by different groups and planning further collaboration.

1. Progress made since Bellagio

Since May 2016, members of the GVP core group have met with 13 high-level individuals and 20 (philanthropic, academic, multilateral or governmental) organizations. They presented the GVP at 14 conferences or public fora. The Bellagio initiative statement and briefing documents were published on a new website (globalviromeproject.org) and a newsletter was created for regular distribution. A policy forum paper is under review in an academic journal, and members of the core group have been interviewed in the lay press. The GVP has also been discussed in the popular press.

Working group co-chairs were identified and invited, and each working group compiled and presented the key activities, challenges, and opportunities facing its group.

Several countries have shown significant interest in the GVP, and certain of those countries have been discussed as “countries of opportunity” for launching a first wave of the GVP. These countries include China, which hosted a meeting following this convening on the “China National Virome Project.”

2. Governance, outreach, and communication strategies

The Global Virome Project is coordinated by a core group with representation from USAID, UC Davis, EcoHealth Alliance, and Metabiota. The core group, steering committee, and working group meetings have been partially funded by USAID, while participating working group co-chairs and steering committee members from a host of additional organizations currently participate on a voluntary basis. As this structure is transitional, the long-term organizational structure of the GVP was discussed during the meeting, including the role of a possible Senior Advisory Board. Additionally, the group discussed possible efforts to augment input into the



core group, including tapping into the steering committee on a periodic basis (while taking into account practicalities around time zones, workloads, etc.), following the Beijing meeting. The creation of a freestanding NGO, with an international search for president, was discussed as a plausible governance framework for the long term functioning of the GVP. It was agreed that the GVP should not be a for-profit venture, and that the long-term composition of the overall effort should have diverse global representation.

The team discussed the need to break down the \$3.5 billion total price tag of the GVP into a “menu” of smaller projects. Different ways to break this down – by region, country, species, viral group, or category as well as specific technology contributions – each present their own challenge. Part of the modeling team’s role will be to economically optimize a field sampling strategy based on biodiversity and accessibility, but local capacity and country-specific laws and protocols must be factored into the costs. Beginning in a “first wave” of countries may increase interest in the project and allow other countries to join and jointly fund the project after value has been demonstrated.

The GVP’s scope and goals – particularly, how to communicate the boundaries and scope of such a broad-reaching project and how to ensure the GVP has public health impact beyond academic research – were discussed at length, and this feedback is being incorporated into the mission and vision statements.

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3. Working group intersections and collaboration

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During the session when each of the working groups had short meetings each of the other working groups, areas of overlap were identified. “Sister” working groups – (e.g. metadata platform and data management) – committed to working together to achieve the most scientifically sound and feasible strategies for delivering on the GVP’s goals were also identified.

(b)(6) established a May 1 goal for the first working group deliverables. It was agreed that generally, the strategic planning of the Science & Technology working groups should precede the tactical delivery of the Governance and Implementation working groups.

The way forward

All participants were called upon to present to their networks in upcoming conferences, meetings, and public fora, and the pitch deck and other explanatory materials will be shared with all participants. Many members of the steering committee expressed interest in increasing their involvement, and were invited to reach out to the co-leads of working groups that interested them to join the budding working groups.

There was additionally a commitment to establishing an online hub where working group participants could communicate, upload files, jointly work on documents, and otherwise interact. Thematic leads were tasked with setting up a call schedule for their working groups and working with their groups to develop roadmaps.



Beijing Global Virome Project (GVP) Steering Committee Meeting

Overarching Meeting Objectives:

To provide an update on progress since Bellagio, as well as forge a consensus on the next steps for the GVP to achieve the goals of building a world safe from emerging viral threats and to lay out a clear roadmap for the launch of the GVP that will provide the best possible outcomes for protecting global health.

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Sunday Objective:

Withheld pursuant to exemption

Arrival and Greetings

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Sunday, February 5th, 2017 Location: China National Convention Center Grand Hotel Beijing, China	
All day	Arrival and check-in to Conference Hotel
6:30 - 8:30 p.m.	Welcome Dinner (Chinese Restaurant at the hotel, 1st Floor) - <i>Welcoming Remarks,</i> (b)(6)



Beijing Global Virome Project (GVP) Steering Committee Meeting

Overarching Meeting Objectives:

To provide an update on progress since Bellagio, as well as forge a consensus on the next steps for the GVP to achieve the goals of building a world safe from emerging viral threats and to lay out a clear roadmap for the launch of the GVP that will provide the best possible outcomes for protecting global health.

Monday Objective:

To provide updates and refocus on the “way forward” agreed upon at Bellagio.

Monday, February 6th, 2017 Location: Zun Yan, 2nd Floor, China National Convention Center Grand Hotel Beijing, China		
8:00 – 9:00 a.m.	Withheld pursuant to exemption (b)(3), (b)(6) - Deliberative Process Privilege Breakfast (2nd Floor)	All Participants Welcome
9:00 - 9:30 a.m.	of the Freedom of Information and Privacy Act Welcoming Remarks and Introductions	(b)(6) Participants (Introductions)
9:30 - 9:40 a.m.	Review of Meeting Agenda & Objectives <i>Brief Remarks</i>	(b)(6)
<u>GVP Status Report Since Bellagio:</u> This session will provide updates on the progress with the GVP since the initial Bellagio meeting in August 2016.		
9:40 - 10:00 a.m.	Updates and Review of Post-Bellagio Planned “Deliverables to Impact” <ul style="list-style-type: none"> ● Developing Structure ● Outreach; Major Lessons and Issues <i>Presentation and Q&A</i>	(b)(6)
10:00 - 10:45	Governance Thematic Area	Thematic & Working Group co-leads



a.m.	<ul style="list-style-type: none"> • Legal, Equity, Social Issues • Advisory/Partnerships <i>Brief presentations, Q&A, & discussion</i>	
10:45 - 11:00 a.m.	Break	All Participants
11:00 - 12:00 p.m.	Science & Technology Thematic Area <ul style="list-style-type: none"> • Lab Platform • Modeling & Risk Analytics • Metadata Platform • Behavioral Risk <i>Brief presentations, Q&A, & discussion</i>	Thematic & Working Group co-leads
12:00 - 1:00 p.m.	Implementation Thematic Area <ul style="list-style-type: none"> • General Management & Partner Engagement • Communications & Outreach • Data Management • Field Operations • Lab & Biosafety Implementation <i>Brief presentations, Q&A, & discussion</i>	Thematic & Working Group co-leads
1:00 - 2:00 p.m.	Lunch (2nd Floor) <ul style="list-style-type: none"> • Group Photo before dispersing for lunch 	All Participants
<p>Strategic Vision: This session will discuss evolving strategies related to outreach, communication, resource mobilization, and stakeholder engagement.</p>		
2:00 - 2:30 p.m.	Establishing Senior Advisory Board <ul style="list-style-type: none"> • Roles and Responsibilities • Suggested Members <i>Facilitated discussion</i>	(b)(6) All Participants
2:30 - 3:15 p.m.	Outreach Update + Discussions <ul style="list-style-type: none"> • Individuals/Organizations/Countries • GVP Documents • Paper status • Website • Newsletter <i>Presentation, discussion, and Q&A</i>	(b)(6)
3:15 - 5:00 p.m.	Evolving Strategy	(b)(6)



<p>(Inclusive of break)</p>	<ul style="list-style-type: none"> ● Honing our strategic thinking for GVP roll out <ul style="list-style-type: none"> ○ Feedback thus far and evolution of messaging ○ Strategic roll-out <ul style="list-style-type: none"> ■ Funding prioritization strategy <ul style="list-style-type: none"> ● Sampling strategy (eco-zones, taxa, etc.) ○ GVP Pitch Deck <ul style="list-style-type: none"> ■ Customizing for the target audience <ul style="list-style-type: none"> ● Resource mobilization ● Engaging technical constituents (ie virologists, conservationists) <p><i>Presentation and facilitated discussion</i> Page 239 of 767</p>	
<p>5:00 - 5:15 p.m.</p>	<p>Summary & Closing Remarks <i>Brief Remarks</i></p> <p><small>Not subject to exemption (b)(5) ; (b)(5) - Deliberative Process Privilege</small></p>	<p>(b)(6)</p>
<p>7:00 – 8:30 p.m.</p>	<p>Dinner</p> <p><small>of the Freedom of Information and Privacy Act</small></p>	<p>All Participants</p>



Beijing Global Virome Project (GVP) Steering Committee Meeting

Overarching Meeting Objectives:

To provide an update on progress since Bellagio, as well as forge a consensus on the next steps for the GVP to achieve the goals of building a world safe from emerging viral threats and to lay out a clear roadmap for the launch of the GVP that will provide the best possible outcomes for protecting global health.

Tuesday Objectives:

Create an opportunity for working group leads to lay the groundwork for areas of shared interest and overlap.

<p style="text-align: center;">Tuesday, February 7th, 2017 Location: Zun Yan, 2nd Floor, China National Convention Center Grand Hotel Beijing, China</p>		
8:00 - 9:00 a.m.	Breakfast (2nd Floor)	All Participants Welcome
9:00 - 9:15 a.m.	Review of Agenda & Plans for Today <i>Brief Remarks</i>	Peter Daszak
<p>Working Groups: This session will focus on “cross-walking” issues/topics that are shared among the working groups; establish lines of communications and identify areas of further shared action.</p>		
9:15 - 9:45 a.m.	Summary of issues and actions discussed on Monday and parking lot issues <ul style="list-style-type: none"> • Senior Advisory Group • Future outreach strategies <i>Summary remarks & Discussion</i>	(b)(6)
9:45 - 11:00 a.m.	Working Groups: Interactive Sessions <ul style="list-style-type: none"> • “Speed Dating” <i>Interactive session</i> <i>Note: Steering Committee to float or join specific WG of their choice</i>	(b)(6) All Participants
11:00 - 11:15 a.m.	Break	All Participants



11:15 - 12:15 p.m.	Report out from Working Group sessions and Summary of next steps <ul style="list-style-type: none"> • What topics identified • Next steps post-Beijing <i>Report out & Discussion</i>	Working Group Co-Leads
12:15 - 1:15 pm.	Lunch (2nd Floor)	All Participants
Parallel Sessions: GVP Working Group Sessions Zun Yan, 2nd Floor, China National Convention Center Grand Hotel China National Virome Project Initiative Meeting Institute of Microbiology, Chinese Academy of Sciences, E301		
1:15 - 4:00 p.m.	Working Group Meeting	Cross-Working Group co-leads meetings
1:30 - 5:00 p.m.	CNVP Initiative Meeting <small>Page 241 of 767</small>	Steering Committee + Core Team + Other Interested Parties
5:00 - 7:00 p.m.	Participant Free Time <small>Withheld pursuant to exemption (b)(5); (b)(5) - Deliberative Process Privilege</small>	All Participants
7:00 – 8:30 p.m.	Dinner <small>of the Freedom of Information and Privacy Act</small>	Participants + CNVP Meeting Attendees



China National Virome Project (CNVP) Initiative Meeting

7 February 2017 2:00 PM
E301 Institute of Microbiology, Chinese Academy of Sciences

Tentative Agenda

1:30-2:00 p.m.	Registration	
2:00-2:20 p.m.	Welcome & Opening Address	(b)(6)
2:20-2:50 p.m.	Introduction of Global Virome Project (GVP)	
2:50-3:10 p.m.	Q & A	
3:10-3:25 p.m.	Presentation	
3:25-3:40 p.m.	Presentation	
3:40-3:55 p.m.	Presentation	
3:55-4:10 p.m.	Presentation	
4:10-4:25 p.m.	Collaborative Viral Discovery Research in China	Peter Daszak
4:25-4:35 p.m.	Brief Summary	(b)(6)
4:35-5:00 p.m.	Discussion-How to initiate the CNVP & Closure	Moderated by (b)(6) & Peter
5:00-7:00 p.m.	Participants free meetings and discussion	

Organization Attending (Tentative)

Ministry of Science and Technology 国家科技部
Veterinary Bureau, Ministry of Agriculture 国家农业部兽医局
National Health and Family Planning Commission 国家卫生与计划生育委员会
Chinese CDC 中国国家疾病预防控制中心
National Natural Science Foundation of China 国家自然科学基金委员会



Beijing Genomics Institute, BGI 华大基因
Harbin Veterinary Research Institute of Chinese Academy of Agricultural Sciences 中国农科院兽医研究所
Wuhan Institute of Virology, Chinese Academy of Sciences 中国科学院武汉病毒所
National Institute for Viral Disease Control and Prevention, China CDC 中国疾病预防控制中心病毒病预防控制所
CAS Key Laboratory of Pathogenic Microbiology and Immunology 中科院病原微生物与免疫学重点实验室
Medical School of Zhejiang University, State Key Laboratory of Infectious Diseases Diagnosis and Treatment 浙江大学医学部·浙江大学附属第一医院、传染病诊治国家 重点实验室
National Institute for Communicable Disease Control and Prevention, Chinese CDC 中国疾病预防控制中心传染病预防控制所
National Research Center for Exotic Animal Diseases, Chinese Animal Health and Epidemiology Center 中国动物卫生与流行病学中心·国家外来动物疫病研究中心
Institute of Microbiology and epidemiology, Academy of Military Medical Sciences 军事医学科学院微生物流行病学研究所
National Institute of Infectious Disease Control and Prevention of Chinese CDC, Zoonosis Office 中国疾病预防控制中心传染病预防控制所·人兽共患病室
National Research Center of Wildlife Borne Diseases, Institute of Zoology of Chinese Academy Science 中国科学院动物研究所野生动物疫病研究中心
Institute of Veterinary Science, Academy of Military Medical Sciences 人畜共患病研究教育部重点实验室·军事医学科学院军事兽医研究所
China Animal Disease Control Center 中国动物疫病防控中心



Institute of Ecology, Beijing Normal University 北京师范大学
MOH Key Laboratory of Systems Biology of Pathogens, Institute of Pathogen Biology, Chinese Academy of Medical Sciences & Peking Union Medical College 中国科学医学院 / 北京协和医学院 · 病原生物学研究所
Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences 中国科学院深圳先进技术研究所
CAS Center for Influenza Research and Early-Warning (CASCIRE), Chinese Academy of Sciences 中国科学院流感研究与预警中心
East China Normal University 华东师范大学
Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences 中科院上海 生物科学研究所
Department of Epidemic Diseases Monitoring of Wild Animal, State Forestry Administration 国家林业局保护司野生动物疫源疫病防控处 <small>Page 244 of 767</small> <small>Withheld pursuant to exemption</small>
China Animal Health and Epidemiology Center 中国动物卫生与流行病学中心 <small>(b)(5) : (b)(5) - Deliberative Process Privilege of the Freedom of Information and Privacy Act</small>
Nanjing Institute of Environmental Sciences (NIES), Ministry of Environmental Protection of China 环境保护部南京环境科学研究
Food & Agriculture Organization of the United Nations, China Office 国际粮农组织
China-US Collaborative Program on Emerging and Re-emerging Infectious Diseases, US Embassy
NIAID Office in China
National Science Foundation (NSF) Beijing Office
WHO China Office
World Bank China Office
USAID Beijing

U.S. & China's Interest in the Global Virome Project: an Opportunity for Global Health Cooperation

Summary

- The Global Virome Project (GVP) is a bold, ambitious 10-year 'big science' project to develop an atlas of the planet's naturally-occurring viral threats – driving the advanced development of countermeasures against future pandemics.
- Both the U.S. and China have expressed considerable interest in leading this global effort.
- China aims to launch a partner project, the "China Virome Project (CVP)" as part of the Belt & Road Initiative (BRI) with Chinese government funding to establish a pandemic threat research network among BRI countries.
- The U.S. is considering scientific and development assistance support to the GVP's global operations and affiliated National Virome programs.
- While the GVP will have to navigate complex issues concerning sharing of specimens and data across national borders, China and U.S. interest in the GVP represents a positive indication that health cooperation, safeguarding global health security, and advancing innovation in science presents new ground for potential U.S.-China collaboration.
- Absent U.S.G. leadership in GVP agenda-setting, governance, and funding, the Chinese government could take a leading position in this potentially path-breaking endeavor undermining years of USG leadership and considerable investment. Additionally, limited access to the information gained through these efforts may have serious national security implications.
- By playing a joint leadership role in the GVP, the U.S. and China have the opportunity to push innovations in science, catalyze advances in health science, and promote equitable access to the intellectual property and commerce that will come from it.

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Health Security is a Global Agenda

We are in a pandemic era, where threats posed by epidemics are greater now than ever. The point in human history. These diseases emerge and spread through our globalized travel and trade networks, so that wherever a new virus originates, once it begins to spread it rapidly gravitates to developed countries such as the U.S.A., and rapidly developing countries like China. They cause global mortality (e.g. HIV/AIDS, influenza, Ebola) and over \$2.3 Trillion in projected costs for the next 30 years. The majority of these global threats originate from viruses carried by animals, e.g. HIV-1 from chimpanzees, Ebolavirus carried by bats in Africa. Global trends indicate that new microbial threats will continue to emerge at an accelerating rate, driven by our expanding population, growing interconnectedness, and increasing interactions with animal populations. Despite the potential impact of viral threats, the world remains unable to predict when, where, or from what species the next emerging virus will break out.

Breakthrough work funded by USAID shows that there are around 1.7 million unknown viruses in wildlife, spanning 24 viral families that have the potential to emerge in the future. Compared to the 260+ viruses known from humans, this viral "dark matter" represents 99.9% of the potential pandemic threat. Thus we expect there are likely thousands of unknown "SARS-like", "HIV-like" or "Ebola-like" viruses circulating in wildlife that could threaten human health. Currently we are working on vaccines for only a handful of these.

The GVP's Ambitious Goals

The GVP vision is an atlas of the majority of the planet's naturally-occurring viral threats over the next 10 years transforming the world of emerging diseases into a data-rich field. Doing this while these viruses still circulate in wildlife – their natural hosts – means we can better prepare for viruses before they emerge in people and cause devastating outbreaks. To do this will be costly, require work in

multiple countries, and international coordination and partnership to manage the decade-long project work, and support equitable data-sharing and access to benefits. A core group of scientific leaders, including leaders of U.S. agencies, members of the U.S. National Academy of Medicine, and Chinese and international collaborators have published a 10-year workplan to conduct the fieldwork, laboratory analysis and database development that will discover over 70% of the currently unknown viral threats so that we can develop strategies to prevent their emergence.

This work should transform our public health culture from responding to costly and devastating outbreaks, to preventing them. This includes pathogens that might otherwise devastate domesticated animal populations, benefitting global food security and livelihoods of farming communities of the world. The GVP database and atlas will catalyze advances in genomics, modeling, diagnostics, vaccine and countermeasure development and public health. These will include risk stratification of the newly discovered viruses to identify those most likely to threaten our health, and new ways to rapidly develop pan-viral family-level vaccines and countermeasures. With modest investments, this may lead to significant return to the biomedical industry and through benefits to public health.

The GVP requires global stewardship

The GVP looks to the Human Genome Project as a model, in which an ambitious vision led to the development of new technologies and a vast data resource now available to all. Unlike the Human Genome Project, sampling for the GVP will need to be multi-national so that the GVP by nature has an international scope. Rather, the GVP will be a federation of National Virome projects that will contribute to a shared data-portal. Thus GVP faces significant challenges: Who will own the samples that are collected from many countries? Where will they be analyzed? Will all GVP data be freely available to the public? The GVP core group is working on these legal and ethical issues, but without proper stewardship, these could hinder and stifle progress. A partnership involving strong engagement of U.S. and Chinese experts will greatly increase the success of this venture and enable experts to help shape the answers to these critical questions.

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The Global Virome Project Provides China and the U.S. a Platform for International Collaboration

The GVP will, over the course of its lifetime, directly contribute to the enhanced capacities for preparedness and response in over 40 countries across Africa, Asia, and the Americas. The U.S.-China scientific leadership has publicly stated that the GVP is an excellent platform for increased U.S.-China collaboration to combat catastrophic threats at the intersection of animal and human health. It represents an opportunity to harness a cross-section of the very best of U.S. and China's scientific, technical and development assistance leadership to provide both funding and in-kind support. International NGOs and academics are likely to provide partial leadership for the GVP. U.S.-China leadership will need to ensure that their shared interests are adequately reflected in this effort.

The Scope of the U.S.-China Collaboration

Leading institutions in the U.S. and China would collaborate on the GVP at both the international level by supporting global operations of the GVP's central coordinating body or "Hub". At the national level, U.S.-China leadership would support the operations of National Virome projects in countries where diseases most often originate (rapidly developing countries) and which are closely connected to global travel and trade networks. Participants from the U.S. and China have respective strengths and resources that, when coordinated, could achieve greater development and health outcomes. Stakeholders include U.S. federal institutions (e.g. NIH, CDC, USAID), universities, and the private sector, as well as the Chinese federal research institutions (e.g. CAS, CAMS) and government agencies (e.g. NHFPC, CDC, CIDCA). These organizations already have formed collaborative links on a number of public health and

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disease research programs and are ready to coordinate without duplicating pre-existing or separate agreements or arrangements. Their focus will be to:

- Support the technical and operational activities of the GVP Hub, including the managing of the global data-portal.
- Provide technical support to develop human resources, training and field operations of the participating National Virome projects.
- Commit to transparent, coordinated collaboration in building an open-access database of viral information.
- Provide risk ranking information directly to WHO, CEPI and the GHSA so that prevention and control measures can be rapidly coordinated to combat newly identified threats.

By enhancing current collaborative ventures, providing joint support to build the U.S.-China GVP leadership and “hub”, we will be able to rapidly move from waiting for the next pandemic to hit, to a state of global preparedness and prevention – the beginning of the end of the pandemic era.

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China National Virome Project (CNVP) Initiative Meeting

7 February 2017 2:00 PM
 E301 Institute of Microbiology, Chinese Academy of Sciences
 Meeting Language: English

Tentative Agenda

1:30-2:00 p.m.	Registration	
2:20-2:20 p.m.	Welcome & Opening Address	(b)(6)
2:20-2:50 p.m.	Introduction of Global Virome Project (GVP)	(b)(6)
2:50-3:10 p.m.	Q & A	
3:10-3:25 p.m.	Presentation	
3:25-3:40 p.m.	Presentation	
3:40-3:55 p.m.	Presentation	
3:55-4:10 p.m.	Presentation	
4:10-4:25 p.m.	Collaborative Viral Discovery Research in China	Peter Daszak
4:25-4:35 p.m.	Brief Summary	(b)(6)
4:35-5:00 p.m.	Discussion-How to initiate the CNVP & Closure	Moderated by (b)(6) & Peter
5:00-7:00 p.m.	Participants free meetings and discussion	

Organization Attending (Tentative)

Ministry of Science and Technology 国家科技部
Veterinary Bureau, Ministry of Agriculture 国家农业部兽医局
National Health and Family Planning Commission 国家卫生与计划生育委员会
Chinese CDC 中国国家疾病预防控制中心
National Natural Science Foundation of China 国家自然科学基金委员会
Beijing Genomics Institute, BGI 华大基因
Harbin Veterinary Research Institute of Chinese Academy of Agricultural Sciences 中国农科院兽医研究所
Wuhan Institute of Virology, Chinese Academy of Sciences 中国科学院武汉病毒所
National Institute for Viral Disease Control and Prevention, China CDC 中国疾病预防控制中心病毒病预防控制所
CAS Key Laboratory of Pathogenic Microbiology and Immunology 中科院病原微生物与免疫学重点实验室
Medical School of Zhejiang University, State Key Laboratory of Infectious Diseases Diagnosis and Treatment 浙江大学医学部, 浙江大学附属第一医院、传染病诊治国家重点实验室
National Institute for Communicable Disease Control and Prevention, Chinese CDC 中国疾病预防控制中心传染病预防控制所

National Research Center for Exotic Animal Diseases, Chinese Animal Health and Epidemiology Center 中国动物卫生与流行病学中心，国家外来动物疫病研究中心
Institute of Microbiology and epidemiology, Academy of Military Medical Sciences 军事医学科学院微生物流行病学研究所
National Institute of Infectious Disease Control and Prevention of Chinese CDC, Zoonosis Office 中国疾控中心传染病预防控制所，人兽共患病室
National Research Center of Wildlife Borne Diseases, Institute of Zoology of Chinese Academy Science 中国科学院动物研究所野生动物疫病研究中心
Institute of Veterinary Science, Academy of Military Medical Sciences 人畜共患病研究教育部重点实验室，军事医学科学院军事兽医研究所
China Animal Disease Control Center 中国动物疫病防控中心
Institute of Ecology, Beijing Normal University 北京师范大学
MOH Key Laboratory of Systems Biology of Pathogens, Institute of Pathogen Biology, Chinese Academy of Medical Sciences & Peking Union Medical College 中国科学医学院 / 北京协和医学院，病原生物学研究所
Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences 中国科学院深圳先进技术研究所
CAS Center for Influenza Research and Early-Warning (CASCIRE), Chinese Academy of Sciences 中国科学院流感研究与预警中心
East China Normal University 华东师范大学
Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences 中科院上海生物科学研究所
Department of Epidemic Diseases Monitoring of Wild Animal, State Forestry Administration 国家林业局保护司野生动物疫源疫病防控处
China Animal Health and Epidemiology Center 中国动物卫生与流行病学中心
Nanjing Institute of Environmental Sciences (NIES), Ministry of Environmental Protection of China 环境保护部南京环境科学研究
Food & Agriculture Organization of the United Nations, China Office 国际粮农组织
China-US Collaborative Program on Emerging and Re-emerging Infectious Diseases, US Embassy NIAID Office in China
National Science Foundation (NSF) Beijing Office
WHO China Office
World Bank China Office
USAID Beijing



Date

Name

Address

Re: **The Global Virome Project: From BIG SCIENCE to BIG IMPACT**
Making the 21st Century Safe from Emerging Viral Threats

Dear Name,

Thank you for your interest and support of the Global Virome Project (GVP) to date. As you know, the GVP is a planned international science venture aimed at collaboratively generating and interpreting data to accelerate progress in combatting the threats posed by emergent viruses to both human and animal populations.

Momentum is building! With a focus on proactive vs. reactive defense in the face of new pandemic threats, the GVP promises to mitigate the social and economic consequences of these diseases. Now the best and brightest minds, including you, are being enlisted to provide leadership for a strategic approach to the project's governance. Our goal is to foster global ownership and international stewardship for the project.

Working Groups have been envisioned to steer the planning and implementation of the GVP. They will be organized around three major themes: Governance, Science and Technology, and Operations, with specific working groups detailed below under each theme.

Governance Theme, Co Chairs, (b)(6)
Ethical, Legal, and Social Implications (ELSI)
Governance/Advisory/Partnerships
Intellectual Property (IP)

Science & Technology Theme, Co Chairs, Peter Daszak (USA/UK) (b)(6)
Lab Platform
Modeling & Risk Analytics
Metadata Platform
Behavioral Risk

Operations Theme, Co Chairs, (b)(6)
General Management & Partner Engagement
Communications & Outreach
Field Operations
Lab & Biosafety Implementation
Data Management



Now, as we build this alliance of partners, we are delighted to invite you to collaborate. Please consider the profound difference you can make by participating in this paradigm shift for global health as you contemplate your acceptance. Practically, there is a commitment. Already we would ask you to save the date for an introductory assembly of the working group leads in Beijing February 5-7, 2017. Reimbursement for travel costs will be provided. That meeting will help us to chart the path forward and identify the expected ongoing time commitment. To confirm your participation in the Beijing meeting and receive the logistical packet, please contact xxxxxx

Thank you for considering,

(b)(6)

U.S. Agency for International Development

Office: (b)(6)

Mobile:

(b)(6)

(b)(6)

School of Veterinary Medicine, University of
California, Davis

Office:

Attached: GVP Bellagio Initiative
Working Group Terms of Reference

Beijing Global Virome Project (GVP) Steering Committee Meeting

Overarching Meeting Objectives:

To provide an update on progress since Bellagio, as well as forge a consensus on the next steps for the GVP to achieve the goals of building a world safe from emerging viral threats and to lay out a clear roadmap for the launch of the GVP that will provide the best possible outcomes for protecting global health.

Sunday Objective:

Arrival and Greetings

Sunday, February 5th, 2017 Location: China National Convention Center Grand Hotel Beijing, China	
All day	Arrival and check-in to Conference Hotel
6:30 - 8:30 p.m.	Welcome Dinner (Chinese Restaurant at the hotel, 1st Floor) - Welcoming Remarks, (b)(6)

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Monday Objective:

To provide updates and refocus on the “way forward” agreed upon at Bellagio.

Monday, February 6th, 2017 Location: Zun Yan, 2nd Floor, China National Convention Center Grand Hotel Beijing, China		
8:00 – 9:00 a.m.	Breakfast (2nd Floor)	All Participants Welcome
9:00 - 9:30 a.m.	Welcoming Remarks and Introductions	(b)(6) Participants (Introductions)
9:30 - 9:40 a.m.	Review of Meeting Agenda & Objectives <i>Brief Remarks</i>	(b)(6)
<u>GVP Status Report Since Bellagio:</u> This session will provide updates on the progress with the GVP since the initial Bellagio meeting in August 2016.		
9:40 - 10:00 a.m.	Updates and Review of Post-Bellagio Planned “Deliverables to Impact” <ul style="list-style-type: none"> ● Developing Structure ● Outreach; Major Lessons and Issues 	(b)(6)

	<i>Presentation and Q&A</i>	
10:00 - 10:45 a.m.	Governance Thematic Area <ul style="list-style-type: none"> ● Legal, Equity, Social Issues ● Advisory/Partnerships <i>Brief presentations, Q&A, & discussion</i>	Thematic & Working Group co-leads
10:45 - 11:00 a.m.	Break	All Participants
11:00 - 12:00 p.m.	Science & Technology Thematic Area <ul style="list-style-type: none"> ● Lab Platform ● Modeling & Risk Analytics ● Metadata Platform ● Behavioral Risk <i>Brief presentations, Q&A, & discussion</i>	Thematic & Working Group co-leads
12:00 - 1:00 p.m.	Implementation Thematic Area <ul style="list-style-type: none"> ● General Management & Partner Engagement ● Communications & Outreach ● Data Management ● Field Operations ● Lab & Biosafety Implementation <i>Brief presentations, Q&A, & discussion</i>	Thematic & Working Group co-leads
1:00 - 2:00 p.m.	Lunch (2nd Floor) <ul style="list-style-type: none"> ● Group Photo before dispersing for lunch 	All Participants
<p>Strategic Vision: This session will discuss evolving strategies related to outreach, communication, resource mobilization, and stakeholder engagement.</p>		
2:00 - 2:30 p.m.	Establishing Senior Advisory Board <ul style="list-style-type: none"> ● Roles and Responsibilities ● Suggested Members <i>Facilitated discussion</i>	(b)(6) All Participants
2:30 - 3:15 p.m.	Outreach Update + Discussions <ul style="list-style-type: none"> ● Individuals/Organizations/Countries ● GVP Documents ● Paper status ● Website ● Newsletter 	(b)(6)

	<i>Presentation, discussion, and Q&A</i>	
3:15 - 5:00 p.m. (Inclusive of break)	<p>Evolving Strategy</p> <ul style="list-style-type: none"> ● Honing our strategic thinking for GVP roll out <ul style="list-style-type: none"> ○ Feedback thus far and evolution of messaging ○ Strategic roll-out <ul style="list-style-type: none"> ■ Funding prioritization strategy <ul style="list-style-type: none"> ● Sampling strategy (eco-zones, taxa, etc.) ○ GVP Pitch Deck <ul style="list-style-type: none"> ■ Customizing for the target audience <ul style="list-style-type: none"> ● Resource mobilization ● Engaging technical constituents (ie virologists, conservationists) <p><i>Presentation and facilitated discussion</i></p>	(b)(6)
5:00 - 5:15 p.m.	<p>Summary & Closing Remarks</p> <p><i>Brief Remarks</i></p>	(b)(6)
7:00 – 8:30 p.m.	Dinner	All Participants

Beijing Global Virome Project (GVP) Steering Committee Meeting

Overarching Meeting Objectives:

To provide an update on progress since Bellagio, as well as forge a consensus on the next steps for the GVP to achieve the goals of building a world safe from emerging viral threats and to lay out a clear roadmap for the launch of the GVP that will provide the best possible outcomes for protecting global health.

Tuesday Objectives:

Create an opportunity for working group leads to lay the groundwork for areas of shared interest and overlap.

Tuesday, February 7th, 2017 Location: Zun Yan, 2nd Floor, China National Convention Center Grand Hotel Beijing, China		
8:00 - 9:00 a.m.	Breakfast (2nd Floor)	All Participants Welcome
9:00 - 9:15 a.m.	Review of Agenda & Plans for Today <i>Brief Remarks</i>	Peter Daszak
Working Groups: This session will focus on “cross-walking” issues/topics that are shared among the working groups; establish lines of communications and identify areas of further shared action.		
9:15 - 9:45 a.m.	Summary of issues and actions discussed on Monday and parking lot issues <ul style="list-style-type: none"> • Senior Advisory Group • Future outreach strategies <i>Summary remarks & Discussion</i>	(b)(6)
9:45 - 11:00 a.m.	Working Groups: Interactive Sessions <ul style="list-style-type: none"> • “Speed Dating” <i>Interactive session</i> <i>Note: Steering Committee to float or join specific WG of their</i>	(b)(6) All Participants

	<i>choice</i>	
11:00 - 11:15 a.m.	Break	All Participants
11:15 - 12:15 p.m.	Report out from Working Group sessions and Summary of next steps <ul style="list-style-type: none"> • What topics identified • Next steps post-Beijing <i>Report out & Discussion</i>	Working Group Co-Leads
12:15 - 1:15 pm.	Lunch (2nd Floor)	All Participants
Parallel Sessions: GVP Working Group Sessions Zun Yan, 2nd Floor, China National Convention Center Grand Hotel China National Virome Project Initiative Meeting Institute of Microbiology, Chinese Academy of Sciences, E301		
1:15 - 4:00 p.m.	Working Group Meeting	Cross-Working Group co-leads meetings
1:30 - 5:00 p.m.	CNVP Initiative Meeting	Steering Committee + Core Team + Other Interested Parties
5:00 - 7:00 p.m.	Participant Free Time	All Participants
7:00 – 8:30 p.m.	Dinner	Participants + CNVP Meeting Attendees

China National Virome Project (CNVP) Initiative Meeting

7 February 2017 2:00 PM
E301 Institute of Microbiology, Chinese Academy of Sciences

Tentative Agenda

1:30-2:00 p.m.	Registration	
2:00-2:20 p.m.	Welcome & Opening Address	(b)(6)
2:20-2:50 p.m.	Introduction of Global Virome Project (GVP)	
2:50-3:10 p.m.	Q & A	
3:10-3:25 p.m.	Presentation	
3:25-3:40 p.m.	Presentation	
3:40-3:55 p.m.	Presentation	
3:55-4:10 p.m.	Presentation	
4:10-4:25 p.m.	Collaborative Viral Discovery Research in China	Peter Daszak
4:25-4:35 p.m.	Brief Summary	(b)(6)
4:35-5:00 p.m.	Discussion-How to initiate the CNVP & Closure	Moderated by (b)(6) & Peter
5:00-7:00 p.m.	Participants free meetings and discussion	

Organization Attending (Tentative)

Ministry of Science and Technology 国家科技部
Veterinary Bureau, Ministry of Agriculture 国家农业部兽医局
National Health and Family Planning Commission 国家卫生与计划生育委员会
Chinese CDC 中国国家疾病预防控制中心

National Natural Science Foundation of China 国家自然科学基金委员会
Beijing Genomics Institute, BGI 华大基因
Harbin Veterinary Research Institute of Chinese Academy of Agricultural Sciences 中国农科院兽医研究所
Wuhan Institute of Virology, Chinese Academy of Sciences 中国科学院武汉病毒所
National Institute for Viral Disease Control and Prevention, China CDC 中国疾控中心病毒病预防控制所
CAS Key Laboratory of Pathogenic Microbiology and Immunology 中科院病原微生物与免疫学重点实验室
Medical School of Zhejiang University, State Key Laboratory of Infectious Diseases Diagnosis and Treatment 浙江大学医学部·浙江大学附属第一医院、传染病诊治国家重点实验室
National Institute for Communicable Disease Control and Prevention, Chinese CDC 中国疾病预防控制中心传染病预防控制所
National Research Center for Exotic Animal Diseases, Chinese Animal Health and Epidemiology Center 中国动物卫生与流行病学中心·国家外来动物疫病研究中心
Institute of Microbiology and epidemiology, Academy of Military Medical Sciences 军事医学科学院微生物流行病学研究所
National Institute of Infectious Disease Control and Prevention of Chinese CDC, Zoonosis Office 中国疾控中心传染病预防控制所·人兽共患病室
National Research Center of Wildlife Borne Diseases, Institute of Zoology of Chinese Academy Science 中国科学院动物研究所野生动物疫病研究中心
Institute of Veterinary Science, Academy of Military Medical Sciences 人畜共患病研究教育部重点实验室·军事医学科学院军事兽医研究所

China Animal Disease Control Center 中国动物疫病防控中心
Institute of Ecology, Beijing Normal University 北京师范大学
MOH Key Laboratory of Systems Biology of Pathogens, Institute of Pathogen Biology, Chinese Academy of Medical Sciences & Peking Union Medical College 中国科学医学院 / 北京协和医学院 · 病原生物学研究所
Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences 中国科学院深圳先进技术研究所
CAS Center for Influenza Research and Early-Warning (CASCIRE), Chinese Academy of Sciences 中国科学院流感研究与预警中心
East China Normal University 华东师范大学
Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences 中科院上海生物科学研究所
Department of Epidemic Diseases Monitoring of Wild Animal, State Forestry Administration 国家林业局保护司野生动物疫源疫病防控处
China Animal Health and Epidemiology Center 中国动物卫生与流行病学中心
Nanjing Institute of Environmental Sciences (NIES), Ministry of Environmental Protection of China 环境保护部南京环境科学研究
Food & Agriculture Organization of the United Nations, China Office 国际粮农组织
China-US Collaborative Program on Emerging and Re-emerging Infectious Diseases, US Embassy
NIAID Office in China
National Science Foundation (NSF) Beijing Office
WHO China Office
World Bank China Office

Thank you for this email. Below is a brief itinerary and budget for the meeting.

February 5, Sunday *China National Convention Center Grand Hotel*

- Arrive and Check-in
- 6:00pm--Dinner

February 6, Monday

- 9:00am—5:00pm GVP WG Meeting

February 7, Tuesday

- 9:00am—12:00pm GVP WG Meeting

Chinese Academy of Science

- 2:00pm—4:00pm CNVP announcement/press release event

Brief Budget

ITEM	RATE	AMOUNT	USD
International travel (R/T)	\$1,500/person (Economy)	40 persons	60,000
Lodging	\$130/room/night	40 persons*3 nights	15,600
Meals	\$100/person/day	40 persons*3 days	12,000
Meeting Venue	\$1,950/day	1.5 days	2,925
		Total	90,525

I have contacted the hotel recommended by (b)(6) the cost of the rooms and one and a half days meetings for 40 people is about \$30K. We are planning to have the China Project announcement event at Chinese Academy of Sciences, so this hotel is a proper choice that is just next to CAS.