Institutional Biosafety Committee, UC Davis Office of Environmental Health and Safety **MINUTES** January 26, 2015 Hoagland Hall Rm 130 NOTE: Next IBC meeting: 02/23/2015

Start Time: 3:05 pm

In attendance:

Angela Gelli	Voting Member, Chair, Pharmacology	
Gerhard Bauer	Voting Member, Vice-Chair, IM Div of Hematology/Oncology	
Philip Barruel	Voting Member, Biosafety Officer, Environmental Health and Safety	
Roger Belcourt	Voting Ex-Officio Member, Occupational Health Services	
Sue Bodine	Voting Member, Neurobiology, Physiology, and Behavior	
William Buhles	Voting Member, Public Member	
	Voting Member, Campus Veterinary Services	
Diane Hoffmann	Voting Member, School of Medicine Sponsored Programs	
	Voting Member, (Alternate) Campus Veterinarian	

Lyle Najita Ioannis Stergiopoulos Renee Tsolis

IBC support staff in attendance:

Voting Member, Vice-Chair, IM Div of Hematology/Oncology
Voting Member, Biosafety Officer, Environmental Health and Safet
Voting Ex-Officio Member, Occupational Health Services
Voting Member, Neurobiology, Physiology, and Behavior
Voting Member, Public Member
Voting Member, Campus Veterinary Services
Voting Member, School of Medicine Sponsored Programs
Voting Member, (Alternate) Campus Veterinarian
Voting Member, Animal Science
Voting Member, Public Member
Voting Member (alternate), Plant Pathology
Voting Member, Medical Microbiology & Immunology

Vivian Xian	Associate Biosafety Officer, Environmental Health and Safety
Christopher Jenkins	Consultant ,WCG

Excused:

Jill Blackwelder-Parker	Non-Voting Ex-Officio Member, Associate Vice Chancellor, Safety Services
Bruce Draper	Voting Member, Molecular & Cellular Biology
Thomas Ferguson	Non-Voting Ex-Officio Member, Medical Director, SHCS
Fred Jacobsen	Voting Member, Public Member
Johan Leveau	Voting Member, Plant Pathology
	Voting Ex-Officio Member, Attending Veterinarian
Neil Speth	Non-Voting Ex-Officio Member, UCDMC Employee Health Services

Guests:

None

I. **Review of past IBC meeting minutes:** Dec 15, 2014 APPROVED (8-0-2, SB and EM abstained)

II. **Announcements:**

1. Biosafety Office personnel changes - Barruel

EH&S Department is currently in the process to recruit two Associate Biosafety Officers.

- Medical Waste Management Program Inspection Barruel The CDPH inspection on January 21, 2015 went well. The inspection report will come in about a month.
- **3.** Select Agent Inspection Barruel The CDC and USDA inspectors will review our campus' Select Agent program. The inspection will Occur from January 27 to 29, 2015.

RT arrived

III. Old Business:

N **R1820** (Tabled at 12/15/14 Mtg)

APPROVED (11-0-0)

Reviewer: mm/pb

IV. New Business

DH arrived

A. New and renewal BUAs for review (see BIO generated minutes for details):

BSL3

- R
 R1804 (Replacing 0873)
 TABLED (12-0-0)
 Reviewer: WCG-cj

 The IBC voted to extend the expiration date of BUA 0873 for another month. The IBC could not form a risk assessment for the project and requested that PI submit revised BUAs addressing the points listed below for IBC review:
 - 1. Split the BUA into three protocols, based on each virus type (alpha viruses, bunya viruses, and filo viruses)
 - 2. Describe which viruses will be manipulated versus screened
 - 3. Add justification for not using anesthesia on birds

RB arrived

BSL2

R	R1791 (Replacing 0745)	APPROVED (13-0-0)	Reviewer: WCG-rb & cj
Ν	R1794	APPROVED (13-0-0)	Reviewer: WCG-jh
R	R1802 (Replacing 0999)	APPROVED (13-0-0)	Reviewer: WCG-cj
R	R1813 (Replacing 1000)	CONDITIONAL (13-0-0)	Reviewer: WCG-jh

IBC requested that PI address the following comments before final approval is granted. PI should submit a revised BUA addressing the comments within a month for final approval.

- 1. Provide the source of viral vectors
- 2. Clarify how genes/nucleic acid will be delivered into mice. Will viral vector be used?

R	R1825 (Replacing 0998)	APPROVED (13-0-0)	Reviewer: WCG-jh
Ν	R1834	APPROVED (13-0-0)	Reviewer: WCG-cj
	BBP only		
R	R1801 (Replacing 0997B)	APPROVED (13-0-0)	Reviewer: WCG-cj
Ν	R1830	APPROVED (13-0-0)	Reviewer: WCG-cj

Ν	R1835	APPROVED (13-0-0)	Reviewer: WCG-cj
	BSL1		
R	R1789 (Replacing 0680)	APPROVED (13-0-0)	Reviewer: WCG-jh
B. Amer	ndments :		
BIO a	amendment (see BIO generate	ed minutes for details):	
	R1698	APPROVED (13-0-0)	Reviewer: WCG-rb
Amer	ndments on SmartSite (old for	rm):	Deviewen
Title	0635(A) Micronutrient absorption met	abolism and status in populations at ris	Reviewer: vx
Thie.	Amendment to add:	abonsin and status in populations at h	sk of deficiency
		 Human blood (plasma, red blood of blood spots) from Niger, The Gan 	
		2. Human urine from Niger, and The	Gambia
		3. Human feces from The Gambia	
	Exp date: 9/17/2015		
	TABLED (13-0-0)		
	-	PI submit a revised BUA addressing t	he points listed below for IBC
	review:		
	1. Is it possible to hav UC Davis?	ve the plasma samples from Gambia de	eactivated before shipping to
	-	d if PCR testing can be done with the	· ·
	filoviruses (includ Davis.	ing Ebola virus) before the samples are	e shipped from Gambia to UC
	0801(A)		Reviewer: vx
Title		use olfactory sensory neurons to attenu	
11101	Amendment to add:	use officially sensory nearons to allen	
		1. Attenuated Vesicular Stomatitis V	(VSV, lab adapted)
	Exp date: 04/15/2016		
	APPROVED (13-0	9-0)	
	· · ·		
C. Cond	itional BUAs reviewed by AB	SO, Final Approval by BSO: None	
D. Term	inated BUAs:		
	0869-01	Dickinson, Pete	Reviewer: nld
Title:	Convection enhanced delivery	y (CED) of murine leukemia virus (ML	LV) cytosine
	Exp date: 01/23/2015		

V. Discussion Items:

1. IBC Operating Procedures (revised December 2014) - Barruel

The document was updated to include discussion on initial and ongoing training for IBC members, clarify the role of Occupational Health Services Medical Director's regarding the health surveillance of researchers who work with high hazard biological agents.

2. Material Transfer Agreements required for BUAs? - Barruel

The IBC decided that there is no need to see MTAs from researchers when reviewing BUAs.

VI. Information Items:

- 1. Online training (BSL2 module) to replace current in-person EH&S Biosafety class Barruel The online training course will replace the in-person EH&S Biosafety class and will have a threeyear refresher requirement.
- VII. IBC Training: None
- VIII. BSL3 Laboratory Information: None
- IX. Notifications: None
- X. Subcommittee Topics: None

End Time: 4:52 pm

Institutional BioSafety Committee

UC Davis Environmental Health and Safety Phone : (530) 752 1493 Fax : (530) 752 4527

Minutes for 02/23/2015 Final

Track 3: Subcommittee Update

BUA#		Principal Investigator	Department	Request Type	Biosafety Level
R1621		CHRISTOPHER POLAGE	MED:PATHOLOGY & LAB MEDICINE	Amend	BSL: 2 ABSL:
Actio	n:	Approved			
Revie	w Stage:	Completed			
Proje	ect Title		es in human health and illne f infectious diseases.	ss and evaluation of te	est methods for diagnosis
Motio	n				
	Reviewer	IBC			
	Review date	February 23, 2015			
	Comments	Approved (12-0-0)			

Comments	Approved (12-0-0)	
Reviewer	Biostaff	
Review dateJanuary 22, 2015		
Comments	Comments Assigned to Chris Jenkins for review	

Section	Explanation
None Apply	

Approved (12-0-0)

BUA#		Principal Investigator	Department	Request Type	Biosafety Level
R1793			MED:PATHOLOGY & LAB MEDICINE	New	BSL: 2 ABSL: 2
Actio	n:	Approved			
Review Stage: Completed					
i rojece i nic		Molecular and cellu immunoassay	lar studies with infectious a	gents and serology by	y multiplex microbead
Motio	n				
	Reviewer	IBC			
	Review date	February 23, 2015			

Applicable NIH Guidelines

Comments

Section	Explanation	
IIID	IIID2 - recombinant proteins in animals	
IIIE	IIIE - BL21	
IIIF	IIIF8 (App CII) - E coli K12	

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1863		VM: PATHOLOGY MICRO & IMMUN	New	BSL: 3 ABSL: 3
Action:	Approved			
Review Stage:	Completed			
Project Title	Flavivirus arboviru	s surveillance, vector com	petence and host pathog	enesis
XF <i>G</i>				

Motion

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)

Applicable NIH Guidelines

Section	Explanation
IIID	IIID1b, IIID1a, IIID2a, IIID4a

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1865		VM: PATHOLOGY	New	BSL: 3
		MICRO & IMMUN		ABSL: 3
Action:	Approved			
Review Stage:	Completed			
Project Title	Bunyavirus arbovir	us surveillance, vector com	petence and host pathogen	esis

Motion

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)

Applicable NIH Guidelines

Section	Explanation
None Apply	

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BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1804		VM: PATHOLOGY	New	BSL: 3
		MICRO & IMMUN		ABSL: 3
Action:	Approved			
Review Stage:	Completed			
Project Title	Alphavirus Arbovir	us surveillance, vector con	npetence and host path	nogenesis

Motion

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)
Reviewer	IBC
Review date	January 26, 2015
Comments	Tabled (12-0-0)
	 The IBC voted to extend the expiration date of BUA 0873 for another month. The IBC could not form a risk assessment for the project and requested that PI submit revised BUAs addressing the points listed below for IBC review: 1) Split the BUA into three protocols, based on each virus type (alpha viruses, bunya viruses, and filo viruses). 2) Describe which viruses will be manipulated versus screened 3) Add justification for not using anesthesia on birds
Reviewer	EHS Staff
Review date	January 9, 2015
Comments	Assigned to Jenkins, C. for review.

Section	Explanation
IIID	IIID1b, IIID1a, IIID2a, IIID4a

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1831		MED: SURGERY	New	BSL: 2
				ABSL: 2
Action:	Approved			
Review Stage:	Completed			
Project Title	Systemic and local	inflammation in renal tran	splantation	

Motion

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)
Reviewer	Biostaff
	Diostan
Review date	January 22, 2015

Section	Explanation
IIID	III-D-3-a

BUA# R1777		Principal Investigator DIASYNOU FIORAVANTE	Department NEURO PHYSIO & BEHAVIOR	Request Type New	Biosafety Level BSL: 2 ABSL:
Action:		Approved			
Review Stage:		Completed			
Project Title		The role of PKC in	neuronal communication a	nd plasticity	
Motion					
	Reviewer	IBC			

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)

Section	Explanation
IIIE	AAV, Risk Group 1 agent.

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1616		MED:MEDICAL MICROBIOLOGY & IMM	Amend	BSL: 3 ABSL:
Action:	Approved			
Review Stage:	Completed			
Project Title	Mechanisms of infection by intracellular bacterial pathogens			

Motion

Reviewer	IBC	
Review date	February 23, 2015	
Comments Approved (12-0-0)		
Reviewer	Biostaff	
Review date January 22, 2015		
Comments	Assigned to Ryan Burnette for review	

Section	Explanation
IIID	 II-D-1-a Introduction of recombinant or synthetic nucleic acids into Risk Group 2 (RG-2) agents. III-D-1-b Introduction of recombinant or synthetic nucleic acids into Risk Group 3 (RG-3) agents. III-D-2-a Experiments in which DNA from RG- 2, RG- 3 agents, or RG-4 agents is transferred into nonpathogenic prokaryotes or lower eukaryotes.
IIIE	IIIE
IIIF	IIIF8 App CI, CII

Approved (12-0-0)

BUA#		Principal Investigator	Department	Request Type	Biosafety Level
R1842			CA ANIMAL HLTH&FOOD SAFETY LAB	New	BSL: 3 ABSL: 2
Action:		Approved			
Review Stage:		Completed			
Project Title			action of C. perfringens ente dhesins of Clostridium diffic		
Motion					
	Reviewer	IBC			
	Review date	February 23, 2015			

Applicable NIH Guidelines

Comments

Section	Explanation
IIID	IIID1a

BUA#		Principal Investigator	Department	Request Type	Biosafety Level
R1810			MED: DIV OF INTERNAL MED	New	BSL: 2
					ABSL: 2
Action:		Approved			
Review Stage:		Completed			
Project Title			nune responses of influe and allergic inflammatic	nza A infection in mice in m	association with social
Motion					
	Reviewer	IBC			
	Roview date	February 23, 2015			

Review date February 23, 2015	
Comments	Approved (12-0-0)
Reviewer Biostaff	
Review date January 22, 2015	
Comments	Assigned to Chris Jenkins for review

Section	Explanation
IIIE	AAV and other biological materials usage falls under Section III-E of the NIH Guidelines

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1812		MED: OPHTHALMOLOGY	New	BSL: 2 ABSL: 1
Action:	Approved			
Review Stage:	Completed			
Project Title	Expression of fluor	escently-tagged proteins in	the retina	

Motion

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)
Reviewer	Biostaff
Reviewer Review date	Biostaff January 22, 2015

Section	Explanation
IIID	IIID4a
IIIE	IIIE1 (aav), IIIE

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1809	PAMELA LEIN	VM: MOLECULAR BIO SCIENCES	New	BSL: 2 ABSL:
Action:	Approved			
Review Stage:	Completed			
Project Title	Establishing Sympa	athetic Neurons derived from	n Human Neural Crest	Stem Cell
Mation				

Motion

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)
Reviewer	Biostaff
Review date	January 22, 2015
Comments	Assigned to Chris Jenkins for review

Section	Explanation
None Apply	

Approved (12-0-0)

BUA#		Principal Investigator	Department	Request Type	Biosafety Level
R1827		JULIE LEARY	MOLECULAR &	New	BSL: 2
			CELLULAR BIO		ABSL:
Actio	n:	Approved			
Revie	w Stage:	Completed			
Proje	ct Title	Mass spectrometric determination of diagnostic carbohydrate and protein biomarkers for			
Motio	n	inflammatory disea	ses		
	r				
	Reviewer	IBC			
	Review date	February 23, 2015			

Applicable NIH Guidelines

Comments

Section	Explanation
None Apply	

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1892	CHUN-YI WU	MED: BIOCHEM & MOLECULAR MED	New	BSL: 2 ABSL:
Action:	Approved			
Review Stage:	Completed			
Project Title	UCD PKPD Bioana	alytical Core Facility		

Motion

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)

Applicable NIH Guidelines

Section	Explanation
None Apply	

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BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1843		MED: SURGERY	New	BSL: 2
				ABSL: 2
Action:	Approved			
Review Stage:	Completed			
Project Title	Generation and eva	luation of PDX (patient	derived xenografts) mode	ls in mice

Motion

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)

Applicable NIH Guidelines

Section	Explanation
None Apply	

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1840	KAREN BALES	PSYCHOLOGY	New	BSL: 2
				ABSL:
Action:	Approved			
Review Stage:	Completed			
Project Title	Oxytocin receptor o	listribution in the humar	ı brain	

Motion

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)

Applicable NIH Guidelines

Section	Explanation
None Apply	

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BUA#		Principal Investigator	Department	Request Type	Biosafety Level
R1841		JOHAN LEVEAU	PLANT PATHOLOGY	New	BSL: 1
					ABSL:
Actio	n:	Approved			
Revie	w Stage:	Completed			
Proje	ct Title	Biology and ecolog	y of plant-associated bacter	ia and fungi	
rioje				C	
Motio	n				
	Reviewer	IBC			

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)

Section	Explanation
IIIE	None of our work falls under Sections III-A, III-B, III-C or III-D, and the NIH Guidelines say: "Experiments not included in Sections III-A, III-B, III-C, III-D, III-F and their subsection are considered in Section III-E."

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1848	ALAN BENNETT	PLANT SCIENCES	New	BSL: 1P
				ABSL:
Action:	Approved			
Review Stage:	Completed			
Project Title	Strategies to improv	ve and enhance plant and p	ostharvest quality of orr	namental and crop plants

Motion

Reviewer	IBC
Review date	February 23, 2015
Comments	Approved (12-0-0)
Reviewer	Biostaff
Review date	January 22, 2015
Comments	Assigned to Chris Jenkins for review

Section	Explanation
IIIE	Section III-E-2-a for use of agrobacterium.

Minutes for 02/23/2015

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Agenda: page 16 of 16

Institutional Biosafety Committee, UC Davis Office of Environmental Health and Safety

MINUTES

Feb 23, 2015 Hoagland Hall Rm 130 NOTE: Next IBC meeting: 03/16/2015

Start Time: 3:03 pm

In attendance:

Gerhard Bauer	Voting Member, Vice-Chair, IM Div of Hematology/Oncology
Philip Barruel	Voting Member, Biosafety Officer, Environmental Health and Safety
Sue Bodine	Voting Member, Neurobiology, Physiology, and Behavior
William Buhles	Voting Member, Public Member
	Voting Member, Campus Veterinary Services
Diane Hoffmann	Voting Member, School of Medicine Sponsored Programs
Fred Jacobsen	Voting Member, Public Member
	Voting Ex-Officio Member, Attending Veterinarian
	Voting Member, Animal Science
Lyle Najita	Voting Member, Public Member

Voting Member (alternate), Plant Pathology

Voting Member, Medical Microbiology & Immunology

Lyle Najita Ioannis Stergiopoulos Renee Tsolis

IBC support staff in attendance:

IDC support start in atter	idance:
Vivian Xian	Associate Biosafety Officer, Environmental Health and Safety
Christopher Jenkins	Consultant ,WCG
Excused:	
Roger Belcourt	Voting Ex-Officio Member, Occupational Health Services
Angela Gelli	Voting Member, Chair, Pharmacology
Jill Blackwelder-Parker	Non-Voting Ex-Officio Member, Associate Vice Chancellor, Safety Services
Bruce Draper	Voting Member, Molecular & Cellular Biology
Thomas Ferguson	Non-Voting Ex-Officio Member, Medical Director, SHCS
Johan Leveau	Voting Member, Plant Pathology
	Voting Member, (Alternate) Campus Veterinarian
Neil Speth	Non-Voting Ex-Officio Member, UCDMC Employee Health Services
Guests:	None
Nicole Drazenovich	Safety & Facilities Coordinator, Center for Comparative Medicine
Curtis Plotkin	Director, EH&S Safety Services
	PI Contact, Lab

I. Review of past IBC meeting minutes:

January 26, 2015 APPROVED (9-0-2, FJ and VL abstained)

II. Announcements: None

RT arrived

III. Old Business:

- R R1804 (Replace 0873, tabled 1/26/15) APPROVED (12-0-0)
- R R1863 (Replace 0873, tabled 1/26/15) APPROVED (12-0-0)
- R R1865 (Replace 0873, tabled 1/26/15) APPROVED (12-0-0)

SmartSite (old form):

0635(A) (tabled 1/23/15)

Title: <u>Micronutrient absorption</u>, metabolism and status in populations at risk of deficiency Amendment to add:

- 1. Human blood (plasma, red blood cells, and/or dried blood spots) from Niger and Lao PDR
- 2. Human urine from Niger

Exp date: 9/17/2015

APPROVED (12-0-0)

IV. New Business

A. New and renewal BUAs for review (see BIO generated minutes for details):

	<u>BSL3</u>		
R	R1842 (Replacing 0690)	APPROVED (12-0-0)	Reviewer: vx
	<u>BSL2</u>		
Ν	R1777	APPROVED (12-0-0)	Reviewer: wcg-cj
Ν	R1793	APPROVED (12-0-0)	Reviewer: vx
Ν	R1810	APPROVED (12-0-0)	Reviewer: wcg-cj
R	R1812 (Replacing 0879-01)	APPROVED (12-0-0)	Reviewer: wcg-jh
R	R1831 (Replacing 1001B)	APPROVED (12-0-0)	Reviewer: wcg-cj
	BBP only		
R	R1809 (Replacing 0924-02B)	APPROVED (12-0-0)	Reviewer: wcg-jh
Ν	R1827	APPROVED (12-0-0)	Reviewer: vx
Ν	R1840	APPROVED (12-0-0)	Reviewer: wcg-jh
Ν	R1843	APPROVED (12-0-0)	Reviewer: wcg-cj
Ν	R1892	APPROVED (12-0-0)	Reviewer: wcg-rb
	<u>BSL1</u>		
R	R1841 (Replacing 0870)	APPROVED (12-0-0)	Reviewer: wcg-rb
R	R1848 (Replacing 0415)	APPROVED (12-0-0)	Reviewer: wcg-rb

VL left

B. Amendments :

BIO amendment (see BIO generated minutes for details):

Reviewer: WCG-cj Reviewer: WCG-cj Reviewer: WCG-cj

Reviewer: vx

R1616

APPROVED (11-0-0)

Reviewer: wcg-rb

R1621 APPROVED (11-0-0)

Reviewer: wcg-cj

Amendments on SmartSite (old form): None

C. Conditional BUAs reviewed by ABSO, Final Approval by BSO: None

D. Terminated BUAs: None

V. Discussion Items:

1. IBC voted (11-0-0) to grant an one month extension for BUAs #1002 (Dr. Stergiopoulos) and #0693 (______).

VI. Information Items:

- 1. CDPH Medical Waste Inspection Report Barruel CDPH reported several observations in their inspection report. Corrective actions and responses are being provided to CDPH.
- VII. IBC Training: None
- VIII. BSL3 Laboratory Information: None
- IX. Notifications: None
- X. Subcommittee Topics: None

End Time: 5:03 pm

Institutional BioSafety

Committee

UC Davis Environmental Health and Safety Phone : (530) 752 1493 Fax : (530) 752 4527

Minutes for 03/16/2015 Draft

Track 3: Subcommittee Update

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1859	DANIEL HWANG	NUTRITION	New	BSL: 2 ABSL:
				ADOL.
Action:	Approved			
Review Stage:	Completed			
Project Title	Low grade inflamm	nation leads to increase	ed risk of insulin resistance a	and atherosclerosis

Motion

Reviewer	IBC
Review date	March 16, 2015
Comments Conditionally approved (11-0-0).	
	IBC requested that the following comment(s) be addressed before final approval is granted. PI should submit a revised BUA addressing the comments within a month.
1) In section 7 Experimental Procedures, provide a description to state how human bl samples and peripheral blood monocytes will be used, including the procedures to be performed with these human blood samples and cells. Add sentences to provide a risk	
	assessment for using human blood and cells, as well as to state that the controls outlined in the Bloodborne Pathogens Exposure Control Plan will be used.

Section	Explanation
IIIE	Use plasmid over-express or knock-down gene TLR or NOD in cultured cells

BUA#		Principal Investigator	Department	Request Type	Biosafety Level
R1855		MICHAEL FERNS	MED:ANESTH & PAIN MEDICINE	New	BSL: 2 ABSL:
Action	n:	Approved			
Review Stage:		Completed			
Project Title		Nicotinic acetylchol	line receptors: assembly, tra	fficking and disease mecha	nisms
Motio	n				
[р. ·	IDC			

Reviewer	IBC
Review date	March 16, 2015
Comments	Approved (11-0-0)

Section	Explanation
IIIE	IIIE - E. coli BL21
IIIF	App. CII - E. coli K-12

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1833		FOOD SCIENCE & TECHNOLOGY	New	BSL: 2 ABSL: 2
Action:	Approved			
Review Stage:	Completed			
Project Title	Bacterial pathogens	s: Interactions with the hos	st and environmental sur	vival
N				

Motion

Reviewer	IBC
Review date	March 17, 2015
Comments	Please have all personnel review a CDC MMWR about a researcher death who worked with an attenuated strain of Yersinia pestis (http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6007a1.htm).
Reviewer	IBC
Review date	March 16, 2015
Comments	Approved (11-0-0)

Section	Explanation
IIID	IIID2a

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1858		PRIMATE CENTER	New	BSL: 2
				ABSL:
Action:	Approved			
Review Stage:	Completed			
Project Title	Primate pathogen re development	esearch and detection for sp	ecific pathogen free and an	imal model
Motion				

Reviewer	IBC		
Keviewei	ше		
Review date	March 16, 2015		
Comments	Conditionally approved (11-0-0).		
	IBC requested that PI address the following comments before final approval is granted. PI should submit a revised BUA addressing the comments within a month.		
	1) In section 4 Biological Materials, under Human Primary Cells, specify the human fluids and tissues to be used, as well as clarify/explain the words core users (listed as the provider) to indicate if the blood, fluids and tissues are to be brought/shipped in by the users of the Pathogen Detection Laboratory (PDL) or to be collected from the users of the PDL. Additionally, provide an answer to the question regarding IRB number to indicate why an IRB approval is not required for the use of these blood, fluid and tissue samples.		
	2) In section 7 Experimental Procedures, provide a description to state why and how the human blood, fluid and tissue samples will be used, including the procedures to be performed with these human samples.		
	In section 7 Infectious Agents, add a sentence to indicate if vaccinations for Hep B and easles will be provide to employees work on the projects.		
	4) The following changes should be made to the BUA (Biosafety staff already made these changes for the PI accordingly):		
	a) Change BSL2 enhanced lab to BSL2 lab throughout section 7.		
	b) In Section 7 - Experimental Procedures, 2nd paragraph, change the word They to Scissors and forceps so that the sentence will read Scissors and forceps are wiped with 70%		
	ethanol		
	c) In Section 7 - Experimental Procedures, paragraph regarding spill, add words to be disposed as medical waste after words paper towels, spill kit absorbent.		
	 d) In Section 7 - Experimental Procedures, paragraph regarding PPE, delete the statement about PPE used by the CNPRC animal care staff. 		

Section	Explanation			
None Apply				
BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1874		MED: DERMATO	LOGY New	BSL: 2 ABSL: 2
Action:	Approved			
Review Stage:	Completed			
Project Title	Lentivirus producti	on for expression of r	ecombinant growth factors	
Motion				

Reviewer	IBC
Review date	March 16, 2015
Comments	Approved (11-0-0)

Section	Explanation
IIID	IIID3a (lenti), IIIE (baculo)

BUA#		Principal Investigator	Department	Request Type	Biosafety Level
R1888		JONATHAN DUCORE	MED: GENERAL PEDIATRICS	New	BSL: 2 ABSL:
Actio	n:	Approved			
Revie	w Stage:	Completed			
Proje	Project Title Use of Open-Label, Multicenter Evaluation of the Long-Term Safety and Efficacy of Recombinant Human Coagulation Factor in the Prevention of Bleeding Episodes in Subject with Coagulation Disorders				
Motio	n				
	Reviewer	IBC			
	Review date	March 16, 2015			
	Comments	Approved (11-0-0)			

Applicable NIH Guidelines

Section	Explanation
None Apply	

Approved (11-0-0)

BUA#		Principal Investigator	Department	Request Type	Biosafety Level
R1881		IOANNIS STERGIOPOULOS	PLANT PATHOLOGY	New	BSL: 1
		STERGIOPOULOS			ABSL:
Actio	n:	Approved			
Revie	w Stage:	Completed			
I (t) I(t)	on Stuge.	1			
Proje	ct Title	Biology and Evolut	ion of Fungal Diseases on H	Plants	
Motio					
WIOUO					
	Reviewer	IBC			
	Review date	March 16, 2015			

Applicable NIH Guidelines

Comments

Section	Explanation
IIIE	III-E-2

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1846		VM: EQUINE ANALYTICAL CHEM PRG	New	BSL: 1 ABSL:
Action:	Approved			
Review Stage:	Completed			
Project Title	Characterization of	in vitro drug metabolism in	veterinary species	
Motion				

Reviewer	IBC
Review date	March 16, 2015
Comments	Approved (11-0-0)

Section	Explanation
None Apply	

BUA#	I	Principal Investigator	Department	Request Type	Biosafety Level
R1849	Ι	LUCA COMAI	PLANT BIOLOGY	New	BSL: 1P
					ABSL:
Action	n:	Approved			
		~			
Review	w Stage:	Completed			
Proje	ct Title	Engineering Centrol	meres to Produce Haploid F	Plants	
Motio	n				
Γ	Reviewer	IBC			

Reviewer	IBC
Review date	March 16, 2015
Comments	Approved (11-0-0)

Section	Explanation
IIIE	III-E-2-a

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1853		MED:MEDICAL MICROBIOLOGY & IMM	New	BSL: ABSL: 1
Action:	Approved			
Review Stage:	Completed			
Project Title	Investigation of the	biologic function of MeCF	22e1	
Motion				

Reviewer	IBC
Review date	March 16, 2015
Comments	Approved (11-0-0)

Section	Explanation
IIIE	IIIE3

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1875	MICHAEL WALKER	VITICULTURE & ENOLOGY	New	BSL: 1P ABSL:
Action:	Approved			
Review Stage:	Completed			
Project Title	Molecular genetic s	support to optimize the b	reeding of resistant rootsto	ocks
Mada				

Motion

Reviewer	IBC
Review date	March 16, 2015
Comments	Approved (11-0-0)

Applicable NIH Guidelines

Section	Explanation
IIIE	IIIE2a

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1870		MED:CELL BIOLOGY & HUMAN ANAT	New	BSL: 1
				ABSL: 1
Action:	Approved			
Review Stage:	Completed			
Project Title	Genetics of mouse l	lens and retina development		

Motion

Reviewer	IBC
Review date	March 16, 2015
Comments	Approved (11-0-0)

Applicable NIH Guidelines

;	Section	Explanation
]	IIIE	IIIE

Report printed on Jul 17, 2015 10:38 AM

Agenda: page 11 of 13

BUA#	Principal Investigator	Department	Request Type	Biosafety Level
R1872		ANIMAL SCIENCE	New	BSL: 1 ABSL:
Action:	Approved			
Review Stage:	Completed			
Project Title	Using siRNAs to M	Iodulate Fibromodulin and	Control Tendon Formation	

Motion

Reviewer	IBC
Review date	March 16, 2015
Comments	Approved Conditionally (11-0-0)
	 Discuss source of horse cells (i.e. will it be from horses that were clinically ill with pathogens?). Discuss risk of exposure to horse cells. Discuss waste disposal and PPE.

Section	Explanation
IIIE	III-E-1

Minutes for 03/16/2015

Report printed on Jul 17, 2015 10:38 AM

MINUTES March 16, 2015

Hoagland Hall Rm 130 NOTE: Next IBC meeting: 04/20/2015

Start Time: 3:05 pm

In attendance:

Angela Gelli	Voting Member, Chair, Pharmacology
Gerhard Bauer	Voting Member, Vice-Chair, IM Div of Hematology/Oncology
Roger Belcourt	Voting Ex-Officio Member, Occupational Health Services
Philip Barruel	Voting Member, Biosafety Officer, Environmental Health and Safety
	Voting Member, Campus Veterinary Services
Fred Jacobsen	Voting Member, Public Member
Johan Leveau	Voting Member, Plant Pathology
	Voting Member, (Alternate) Campus Veterinarian
	Voting Member, Animal Science
Lyle Najita	Voting Member, Public Member

Lyle Najita Renee Tsolis

IBC support staff in attendance:

in a support star in at		
Vivian Xian	Associate Biosafety Officer, Environmental Health and Safety	
Christopher Jenkins	Consultant ,WCG	

Excused:

Lineasear	
Jill Blackwelder-Parker	Non-Voting Ex-Officio Member, Associate Vice Chancellor, Safety Services
Sue Bodine	Voting Member, Neurobiology, Physiology, and Behavior
William Buhles	Voting Member, Public Member
Bruce Draper	Voting Member, Molecular & Cellular Biology
Thomas Ferguson	Non-Voting Ex-Officio Member, Medical Director, SHCS
Diane Hoffmann	Voting Member, School of Medicine Sponsored Programs
	Voting Ex-Officio Member, Attending Veterinarian
Neil Speth	Non-Voting Ex-Officio Member, UCDMC Employee Health Services

Voting Member, Medical Microbiology & Immunology

Ioannis Stergiopoulos

Guests:	None
Nicole Drazenovich	Safety & Facilities Coordinator, Center for Comparative Medicine
George Thompson	PI, Medical Microbiology and Immunology

Voting Member (alternate), Plant Pathology

Review of past IBC meeting minutes: I.

February 23, 2015 APPROVED (8-0-0)

II. Announcements: None

III. **Old Business: None**

Gelli and Tsolis arrived

IV. **New Business**

A. New and renewal BUAs for review (see BIO generated agenda for details):

BSL3 None

Ma arrived

BSL2

- R **R1833** (Replacing 0693) **APPROVED** (11-0-0)
- R **R1855** (Replacing 0775) Ferns, Michael **APPROVED** (11-0-0)

R **R1858** (Replacing 0732-03)

CONDITIONALLY APPROVED (13-0-0)

IBC requested that the following comment(s) be addressed before final approval is granted:

- 1. Specify the human fluids and tissues to be used, as well as clarify/explain the words "core users" to indicate if the blood, fluids and tissues are to be brought/shipped in by the users of the Pathogen Detection Laboratory (PDL).
- 2. State/describe why and how the human blood, fluid and tissue samples will be used, including the procedures to be performed with these human samples.
- 3. State vaccinations for Hep B and measles will be provided to employees who work on the projects.

R **R1859** (Replacing 0692) Hwang, Daniel Reviewer: vx **CONDITIONALLY APPROVED (13-0-0)**

IBC requested that the following comment(s) be addressed before final approval is granted:

- 1. Provide a description to state how human blood samples and peripheral blood monocytes will be used, including the procedures to be performed with these human blood samples and cells. Add sentences to provide a risk assessment for using human blood and cells, as well as to state that the controls outlined in the Bloodborne Pathogens Exposure Control Plan will be used.
- R **R1874** (Replacing 0773) **APPROVED** (11-0-0)

Reviewer: WCG-cj

BBP only

R **R1888** (Replacing 0492-02B)

Ducore, Jonathan

Reviewer: WCG-jh



Reviewer: vx

Reviewer: vx

Reviewer: WCG-cj

	APPROVED (11-0-0)		
R	BSL1 R1846 (Replacing 1004) APPROVED (11-0-0)		Reviewer: WCG-jh
Ν	R1849 APPROVED (11-0-0)	Comai, Luca	Reviewer: WCG-jh
R	R1853 (Replacing 0874) APPROVED (11-0-0)		Reviewer: WCG-jh
R	R1870 (Replacing 1003) APPROVED (11-0-0)	Brown, Nadean	Reviewer: WCG-cj
Ν	approval is granted: 1. Discuss the source of clinically ill with path	e following comment(s) be addressed before the horse cells. Will the cells be from horses that ogens? rsonnel exposure to horse cells.	
R	R1875 (Replacing 0109-02) APPROVED (11-0-0)	Walker, Michael	Reviewer: WCG-jh
R	R1881 (Replacing 1002) APPROVED (11-0-0)	Stergiopoulos, Ioannis	Reviewer:
BIO a	ndments : amendment (None) adments on SmartSite (old form) BSL3	:	
Title:	0235-01(A) Biology, molecular biology and c Amendment to add:	ontrol of phloem-limited plant viruses Cucumber green mottle mosaic virus and re	Reviewer: WCG-cj search
	Exp date: 01/28/2016 APPROVED (11-0-0)	project using this virus	
Title:	0900-03(G) <u>Fungal phenotypic and genotypic</u> Amendment to add:	features	Reviewer: vx
		Infection of mice, rat, rabbit and guinea pige Coccidioides spp. or Aspergillus spp.	s with

- 2. in vitro blood brain barrier (BBB) system
- 3. Project using Asperfillus conidia and Coccidioides spherule/endospores with *in vitro* BBB system

Exp date: 5/21/2015

APPROVED (10-0-0, this BUA was reviewed first)

BSL2

0524(A)

Title: <u>Pathogenesis of Helicobacter pylori</u> Amendment to add:

1. Coinfection of mice with H. pylori and Plasmodium chabaudi

2. Harvesting tissues and blood from co-infected mice

Exp date: 07/05/2016

APPROVED (11-0-0)

<u>BSL1</u>

1022B(A)

Title: <u>Retinoic acid, its receptors, and the liver</u> Amendment to add: Reviewer: vx

Reviewer: vx

1. Project using plasmids px330-ctnnb1 activation, px330-P53 KO and px330-pten KO

Exp date: 11/19/2015

TABLED (11-0-0)

The IBC requested PI to submit a revised BUA amendment to address the comments listed below:

1. Add a paragraph to provide a risk assessment for using the plasmids that carry the genes of interest, including the nature of each gene, the consequence if self-inoculation occurs, and the precautions to be taken to prevent self-inoculation.

C. Conditional BUAs reviewed by ABSO, Final Approval by BSO: None

D. Terminated BUAs:

1005B

Land, Donald

Reviewer: mmm

Title: <u>The influence of collection volume on postmortem methamphetamine concentrations</u> *Exp date:* 04/16/2015

V. Discussion Items:

- 1. Task Force on Biosafety and Biosecurity Barruel
 - UC President Napolitano asked the UC Chancellors to do the following:
 - Create a High-Containment Laboratory Director position and a campus High-Containment
 - Laboratory Oversight Group if their campus has high-containment facilities
 - · Conduct an inventory of biohazardous materials

VI. Information Items:

1. ABSO recruitment update - Barruel Four candidates for the ABSO were interviewed for the two open positions.

VII. IBC Training: None

VIII. BSL3 Laboratory Information: None

1. J1 and VM3A annual re-verification - Barruel

The annual re-verifications for the J1 and VM3A BSL3 facilities were conducted. Both facilities performed well in the HVAC failure tests. The IBC voted (11-0-0) to approve the operation of these facilities for another year.

IX. Notifications: None

X. Subcommittee Topics: None

End Time: 4:55 pm

MINUTES April 20, 2015

Hoagland Hall Rm 130 NOTE: Next IBC meeting: 05/18/2015

Start Time: 3:05 pm

In attendance:

Gerhard Bauer	Voting Member, Vice-Chair, IM Div of Hematology/Oncology
Roger Belcourt	Voting Ex-Officio Member, Occupational Health Services
Philip Barruel	Voting Member, Biosafety Officer, Environmental Health and Safety
Sue Bodine	Voting Member, Neurobiology, Physiology, and Behavior
William Buhles	Voting Member, Public Member
	Voting Member, Campus Veterinary Services
Bruce Draper	Voting Member, Molecular & Cellular Biology
Thomas Ferguson	Non-Voting Ex-Officio Member, Medical Director, SHCS
Diane Hoffmann	Voting Member, School of Medicine Sponsored Programs
	Voting Ex-Officio Member, Attending Veterinarian
Fred Jacobsen	Voting Member, Public Member
Johan Leveau	Voting Member, Plant Pathology
Lyle Najita	Voting Member, Public Member
Renee Tsolis	Voting Member, Medical Microbiology & Immunology

IBC support staff in attendance:

Vivian Xian	Associate Biosafety Officer, Environmental Health and Safety
Excused:	
Jill Blackwelder-Parker	Non-Voting Ex-Officio Member, Associate Vice Chancellor, Safety Services
Angela Gelli	Voting Member, Chair, Pharmacology
	Voting Member, (Alternate) Campus Veterinarian

Neil Speth Ioannis Stergiopoulos Voting Member, Animal Science Non-Voting Ex-Officio Member, UCDMC Employee Health Services Voting Member (alternate), Plant Pathology None

Guests: James Baugh Adrienne Zweifel

Associate Biosafety Officer, Environmental Health and Safety Associate Biosafety Officer, Environmental Health and Safety

I. **Review of past IBC meeting minutes:**

March 16, 2015 **APPROVED** (9-0-0, Draper, Bodine and Buhles abstained)

II. **Announcements:**

- 1. Welcome the new Associate Biosafety Officers: James Baugh and Adrienne Zweifel Barruel
- III. Old Business:

BSL1

1022B(C) (Tabled 3/16/14)

 Title:
 Retinoic acid, its receptors, and the liver

 Amendment to add:

 Project using plasmids *px330-ctnnb1* activation, *px330-P53* KO and *px330-pten* KO *Exp date: 11/19/2015*

> NIH Guideline sections: III-E APPROVED (12-0-0)

Tsolis arrived

IV. New Business

A. New and renewal BUAs for review:

BSL3

R**R1905** (Replacing 0776)DeRiemer, KathrynReviewer: vxTitle:Transmission, virulence and diversification of pathogenic bacteria

NIH Guideline sections: N/A APPROVED (13-0-0)

BSL2

N **R1828**

R	R1758 (Repl	acing 0769)			Reviewer: WCG-cj
	p	Acaques as a model for in athogenesis, transmission herapy	,		
	N	IIH Guideline sections:	III-D-4(a), III-l	D-4(b)	

APPROVED (13-0-0)

III-D-+(*a*), III-D-+(0)

Reviewer: WCG-cj

Reviewer: vx

Title: Identifying rhinovirus infection in human breath

CONDITIONALLY APPROVED (13-0-0)

The IBC requested that the following comment(s) be addressed before final approval is granted:

- 1. Clarify if the rDNA work described in the IRB protocol.
- 2. Clarify if the vials with ECBs will be opened outside of the BSC.

Schivo, Michael

3. Clarify how samples will be transferred from tubes into analyzer.

R		placing 0882) Xu, Lifeng Molecular mechanisms of telomere n	naintenance	Reviewer: WCG-jh
		NIH Guideline sections: III-D APPROVED (13-0-0)		
R		placing 0993-02) Viral pathogenesis of newly discover	ed veterinary viruses	Reviewer: WCG-cj
		NIH Guideline sections: III-D-1-a APPROVED (13-0-0)	L	
R		placing 0884) Weimer, Bart Infection mechanisms for food borne	pathogens	Reviewer: vx
		NIH Guideline sections: III-D-2-a APPROVED (13-0-0)	a, III-D-3-a	
N	R1911 Title:	Genome Engineering in Cancer using CONDITIONALLY APPROVED (Reviewer: WCG-cj
	1	The IBC requested that the following approval is granted: Clarify if pig embryos will be allowe	comment(s) be addressed before	
		be kept in cell culture. Describe what will be done with the		S of Just
Ν	R1913 Title:	Collins, Sean Cellular signal processing in chemota	axis	Reviewer: vx
		NIH Guideline sections: III-D-3-t APPROVED (13-0-0))	
N	BBP only R1847 Title:	Huising, Mark Use of specified pathogen free huma		Reviewer: WCG-jh
		NIH Guideline sections: N/A APPROVED (13-0-0)		
R		placing 1006B) Silva, Eduard Engineering homing of progenitor ce		Reviewer: WCG-jh
		NIH Guideline sections: N/A APPROVED (13-0-0)		
Ν	R1906	O'Donnell, M	artha	Reviewer: WCG-jh

March 16, 2015 Minutes FINAL

R **R1910** (Replacing 0883) Reviewer[·] vx Title: Regulation of stem cells neurodegenerative diseases and the Molecular and cellular analysis in Autism, Fragile X and FXTAS. NIH Guideline sections: N/A **APPROVED** (13-0-0) BSL1 R **R1886** (Replacing 0433) Reviewer: WCG-jh Title: Genes involved in canine disorders (hypoadrenocorticism and epilepsy) and bone elongation NIH Guideline sections: III-F, Appendix C I, II **APPROVED** (13-0-0) R **R1900** (Replacing 0849-02) Reviewer: WCG-cj Title: Reservoir of feline immunodeficiency virus and pumalentivirus during the asymptomatic phase of infection NIH Guideline sections: N/A **APPROVED** (13-0-0) R **R1901** (Replacing 0225) Dandekar, Abhaya Reviewer: WCG-cj Title: Functional Analysis of quality and productivity traits in crop **TABLED** (13-0-0) The IBC requested PI to submit a revised BUA amendment to address the comments listed below: 1. Verify if the information on some of the plant pathogens is correct. 2. Clarify which pathogens will be used with which plants. 3. Verify if some of the organisms will require permits. **B.** Amendments : **BIO** amendment: BSL2 R1601 Reviewer: vx Title: Human explant model and human blood analysis Amendment to add. 1. Staphylococcal Enterotoxin

Title: Engineering homing of progenitor cells

N/A

NIH Guideline sections:

APPROVED (13-0-0)

2. White blood cells and lymphoid tissues from non human primate

Exp date: 04/21/2017

4/9

		NIH Guideline sections: APPROVED (13-0-0)	III-D-4-a, III-E-1	
	BSL1 0712(A) Title: Immune r Amendmo	Рс	hogens in horses acteria <i>Mannheimia haemolytica</i> , <i>asteurella multocida</i> and <i>Trueperella</i> ew person	Reviewer:
		NIH Guideline sections: APPROVED (13-0-0)	N/A	
		•	inal Approval by BSO: None ordon, Tomas III-E-2-b, III-E-2-a, III-E ute: 12/15/2014	Reviewer:
	R R1858 (R	NIH Guideline sections: <i>Conditional Approval Da</i>	N/A hte: 3/16/2015	Reviewer:
	R R1859 (R	eplacing 0692) Hy NIH Guideline sections: <i>Conditional Approval Da</i>	wang, Daniel III-E ate: 3/16/2015	Reviewer:
	D. Terminated BU	JAs: None		
V.	Discussion Items:	None		
March	n 16, 2015 Minutes F	INAL		

Title: Genome Engineering in Mammalian Systems Amendment to add:

- 1. Adeno-associated Virus Vector
- 2. Mouse embryonic stem cells and mesenchymal stem cells

Exp date: 05/19/2017

BSL1 R1640

C.

D.

V. Di

Reviewer: WCG-jh

VX

VX

VX

NIH Guideline sections: III-F-8, App C-II **APPROVED** (13-0-0)

1. Needle stick involving AAV vector - Barruel

On April 10, 2015, a researcher had a needlestick with AAV vector carrying human gene SGSH. This inccident will be reported to NIH OBA since it involved personnel exposure to rDNA.

VI. Information Items:

1. High-Containment Laboratory Officer recruitment - Barruel

As recommended by UC President Napolitano, UC Davis is recruiting a High-Containment Facility Officer to oversee the operation, personnel training, and maintenance of safety documents for high-containment and select agent facilities.

2. High-Containment Laboratory Oversight Group - Barruel

As recommended by UC President Napolitano, UC Davis is in the process of forming an oversight group that will involve various stakeholders (including researchers, safety officers, facilities management, administration, emergency responders, architects, and finance officers) to ensure the proper planning, maintenance, and operation of high-containment facilities.

VII. IBC Training: None

VIII. BSL3 Laboratory Information:

- 1. BSL3 and ABSL3 annual re-verification Baurruel IBC approved (12-0-1, abstained) the operation of the BSL3 and ABSL3 lab for another year.
- IX. Notifications: None
- X. Subcommittee Topics: None

End Time: 4:58 pm

MINUTES May 18, 2015

Hoagland Hall Rm 130 NOTE: Next IBC meeting: 6/15/2015

Start Time: 3:00 pm

In attendance:

Angela Gelli	Voting Member, Chair, Pharmacology
Roger Belcourt	Voting Ex-Officio Member, Occupational Health Services
Philip Barruel	Voting Member, Biosafety Officer, Environmental Health and Safety
Sue Bodine	Voting Member, Neurobiology, Physiology, and Behavior
William Buhles	Voting Member, Public Member
	Voting Member, Campus Veterinary Services
Bruce Draper	Voting Member, Molecular & Cellular Biology
Diane Hoffmann	Voting Member, School of Medicine Sponsored Programs
Fred Jacobsen	Voting Member, Public Member
	Voting Ex-Officio Member, Attending Veterinarian
	Voting Member, Animal Science

Voting Member (alternate), Plant Pathology

Voting Member, Vice-Chair, IM Div of Hematology/Oncology

Non-Voting Ex-Officio Member, Associate Vice Chancellor, Safety Services

Non-Voting Ex-Officio Member, UCDMC Employee Health Services

Voting Member, (Alternate) Campus Veterinarian

Voting Member, Medical Microbiology & Immunology Non-Voting Ex-Officio Member, Medical Director, SHCS

Lyle Najita Ioannis Stergiopoulos

IBC support staff in attendance:

James Baugh	Associate Biosafety Officer, Environmental Health and Safety
Vivian Xian	Associate Biosafety Officer, Environmental Health and Safety
Adrienne Zweifel	Associate Biosafety Officer, Environmental Health and Safety

Voting Member, Plant Pathology

Voting Member, Public Member

Excused:

Gerhard Bauer Johan Leveau

Renee Tsolis Thomas Ferguson Jill Blackwelder-Parker Neil Speth

Guests:

Bryce Falk	PI, Plant Pathology
shahideh nouri	Researcher, Plant Pathology
Suzanne Johnson	PI contact, Med: Medical Microbiology & Imm

I. **Review of past IBC meeting minutes:**

APPROVED (9-0-2, Gelli and April 20, 2015 abstained)

II. Announcements: None

III. Old Business: None

IV. New Business:

Lukas arrived

A. New and renewal BUAs for review:

BSL3

N **R1904** Falk, Bryce Reviewer: vx Title: Assessing the biological activity of Diaphorina citri-infecting NIH Guidelines: III-4-4-a, III-D-5-a, III-F-8, App C-II *APPROVED* (12-0-0)

Draper arrived

R	R1928 (Replacing 0423) Title: Biology and immu NIH Guidelines: APPROVED (13-	ne response to Coccidioides III-D-2-a - 0-0)	Reviewer: jb
N	BSL2 R1903 Title: Genomic Engineer NIH Guidelines: APPROVED (11-	ring and Categorization of Mammalian Systems III-D-4-a, III-E-1, III-F - 0-0)	Reviewer: az
N	R1918 Title: Genetic and Cellul Degeneration NIH Guidelines: APPROVED (13-	ar Treatments for Age-Related Macular III-D-4-a, III-E-1 -0-0)	Reviewer: vx
R	R1932 (Replacing 0075-01) Title: Detection and mec occurring chemical NIH Guidelines: APPROVED (13-	hanisms of action of xenobiotic and naturally ls III-E-1	Reviewer: vx
N	R1942 Title: The modulation of NIH Guidelines: <i>APPROVED</i> (13-	Saeij, Jeroen host cells by apicomplexan parasites III-D-1-a, III-D-2-a -0-0)	Reviewer: jb
R	<u>BBP only</u> R1933 (Replacing 1008B)	Puschner, Birgit	Reviewer: vx

Title: The interaction of environmental pollutants with the human genome might increase the chance of pregnant women to give birth to children with autism spectrum disorder

NIH Guidelines: N/A APPROVED (13-0-0)

<u>BSL1</u>

 R
 R1899 (Replacing 0056)
 Rose, Lesilee

 Title:
 Control of cell division pattern in C. elegans

 NIH Guidelines:
 III-D-1-a, III-D-4-b, III-F-4

 APPROVED
 (13-0-0)

N **R1914**

Pearson, Garry

Reviewer: jb

Reviewer: az

 Title:
 Growth of transgenic tomatoes that express apoA-I mimetic peptides

 NIH Guidelines:
 III-E-2-a

 CONDITIONALL APPROVED (13-0-0)

The IBC requested that the following comment(s) be addressed before final approval is granted:

- 1. Clarify how you label the transgenic tomatoes at the greenhouse.
- 2. Clarify whether the transgenic tomatoes will be grown near nontransgenic plants.
- 3. Clarify the risk of release of rDNA due to cross pollination of other plants or rDNA escape from the greenhouse. Further what would happen if the transgenic plant were accidentally released?
- 4. Clarify if you have a transport permit for the rDNA exchange between UCLA and UC Davis campuses. If so please add it to Section 8-Attachments.

R	R1920 (Replacing 0711-03) Beckles, Diane	Reviewer: vx
	Title: Characterization of a transgenic tomato line overexpressing an	
	Arabidopsis Dof1 transcription factor	
	NIH Guidelines: III-E-2-a	
	APPROVED (13-0-0)	

 R
 R1922 (Replacing 0886)
 Mitcham, Elizabeth
 Reviewer: az

 Title:
 Postharvest biology and technology of fruits
 NIH Guidelines:
 III-E-2-a

 APPROVED
 (13-0-0)
 (13-0-0)
 (13-0-0)

- R
 R1924 (Replacing 0061-03)
 Gasser, Charles
 Reviewer: az

 Title:
 Molecular basis of ovule development and evolution
 NIH Guidelines:
 III-E-2-a

 APPROVED
 (13-0-0)
 III-E-2-a
- R **R1930** (Replacing 1009) Title: Neurobiological mechanisms of memory consolidation

Reviewer: jb

	NIH Guidelines: III-D-4-a APPROVED (13-0-0)	
	 R R1947 (Replacing 0711-04) Beckles, Diane Title: Characterization of a rice glycogen synthase kinase gene and its potential role involving starch biosynthesis in response to salinity stress NIH Guidelines: III-E-2-a, III-E-1 APPROVED (13-0-0) 	Reviewer: vx
Gelli left		
	Amendments: BIO amendment: <u>BSL3</u> R1804	Reviewer: jb
	Title: Alphavirus Arbovirus surveillance, vector competence and host pathogenesis Amendment to add:	
	1. New mosquito speciesNIH Guidelines:III-D-1-b, III-D-1-a, III-D-2-a, II-ID-4-aAPPROVED (12-0-0)	
	R1863Title: Flavivirus arbovirus surveillance, vector competence and host pathogenesis Amendment to add:	Reviewer: jb
	1. New mosquito species2. Parasitic worm Dirofilaria immitisNIH Guidelines:III-D-1-b, III-D-1-a, III-D-2-a, III-D-4-aAPPROVED (12-0-0)	
	BSL2 BSL2 R1810 Image: Comparison of the second	Reviewer: az
	1. Pertussis toxinNIH Guidelines:III-EAPPROVED (12-0-0)	
	BSL1 R1574 Image: Constraint of the second seco	Reviewer: az

NIH Guidelines: III-D-1-a, III-D-4-a *APPROVED* (12-0-0)

C. Storage Only:

R **R1921** (Replacing 0774-01)

Reviewer: az

STORAGE ONLY: The Role of Mouse Endogenous Retroviruses in Systemic Response after Injury NIH Guidelines: N/A APPROVED (12-0-0)

D. Terminated BUAs: None

V. Discussion Items:

1. The IBC Voted (12-0-0) to extend the expiration dates for another month for BUAs #0900 (by Dr.) and #0225 (by Dr. Abhaya Dandekar)

VI. Information Items: None

VII. IBC Training:

- 1. CRISPR/Cas9 technology Baugh
 - Powerpoint presentation was given on the basics of how the system works, how it is utilized in research, and what the future hold for its utilization in the creation of knockout animals.

End Time: 4:45 pm

Minutes

June 15, 2015 (3-5pm)

Hoagland Hall Rm 130 NOTE: Next IBC meeting: 7/20/2015

Start Time: 3:00 pm

In attendance:

Gerhard Bauer	Voting Member, Vice-Chair, IM Div of Hematology/Oncology
Philip Barruel	Voting Member, Biosafety Officer, Environmental Health and Safety
Roger Belcourt	Voting Ex-Officio Member, Occupational Health Services
William Buhles	Voting Member, Public Member
	Voting Member, Campus Veterinary Services
Diane Hoffmann	Voting Member, School of Medicine Sponsored Programs
Fred Jacobsen	Voting Member, Public Member
	Voting Ex-Officio Member, Attending Veterinarian
	Voting Member, Animal Science
Lyle Najita	Voting Member, Public Member
Ioannis Stergiopoulos	Voting Member (alternate), Plant Pathology

Ioannis Stergiopoulos Renee Tsolis

IBC support staff in attendance:

James Baugh	Associate Biosafety Officer, Environmental Health and Safety
Vivian Xian	Associate Biosafety Officer, Environmental Health and Safety
Adrienne Zweifel	Associate Biosafety Officer, Environmental Health and Safety

Excused:

Angela Gelli	Voting Member, Chair, Pharmacology
Sue Bodine	Voting Member, Neurobiology, Physiology, and Behavior
Bruce Draper	Voting Member, Molecular & Cellular Biology
Johan Leveau	Voting Member, Plant Pathology
	Voting Member, (Alternate) Campus Veterinarian
Thomas Ferguson	Non-Voting Ex-Officio Member, Medical Director, SHCS

Voting Member, Medical Microbiology & Immunology

Jill Blackwelder-Parker Neil Speth

Guests:



PI, Med:medical Microbiology & Imm Laboratory Animal Medicine Resident with TRACS

Non-Voting Ex-Officio Member, Associate Vice Chancellor, Safety Services

Non-Voting Ex-Officio Member, UCDMC Employee Health Services

I. **Review of past IBC meeting minutes:**

May 18, 2015 APPROVED (9-0-2, Bauer and Tsolis abstained)

II. Announcements: None

BSL1

- R R1901 (Tabled 4/20/15) Dandekar, Abhaya
 - Title:Functional Analysis of quality and productivity traits in cropNIH Guideline:III-E-2-a, III-E-2-b-(3), III-E-2-b-

(4), III-E

TABLED (11-0-0)

The IBC requested PI to submit a revised BUA amendment to address the comments listed below:

- 1. Section 1: The IBC requested that the "Project Summary" narrative be condensed and clarified
- 2. Section 6: The IBC requested that the "Risk Assessment" section be condensed and clarified.

IV. New Business

A. New and renewal BUAs for review:

BSL3

- R **R1938** (Replacing 0900-03)
 - Title: Human pathogenic fungal research

NIH Guideline: III-D-2-a **CONDITIONALLY APPROVED** (12-0-0) (This BUA was reviewed after BUA R1952)

The IBC requested that the following comment(s) be addressed before final approval is granted:

- 1. Section 1 Project Summary: please discuss how and why you are using Histoplasma in your research.
- 2. Section 2 BUA Locations: please provide accurate housing and procedure locations for experiments involving guinea pigs and rabbits, and procedure spaces for other rodents.
- Section 4 Biological Materials Fungi/Yeast Coccidiodes immitis: please provide additional information regarding whether this increased resistance is to clinically relevant antifungal agents.
- 4. Section 7 Risk Assessment Experimental Procedures: please revise the BBB narrative to reflect that all experiments will be
- 5. Section 7 Risk Assessment Experimental Procedures: please provide additional information regarding how animals are handled safely during procedures (anesthetized or restrained).
- Section 7 Risk Assessment Research Materials: please provide additional discussion of wet mounts including a risk assessment and a discussion of proper containment (use of PPE, biosafety cabinets, etc).



Reviewer: vx

Reviewer: az

Reviewer: az

	Title: Development of a Non-Human Primate Model as a Tool to Evaluate Human Stem Cell-Derived Replacement Therapies for Motor Neuron Injuries and Degenerative Diseases NIH Guideline: III-D-4-b APPROVED (11-0-0)	
R	R1940 (Replacing 0223)Thirkill, CharlesTitle:Autoimmune reactions within the eyeNIH Guideline:III-F-8, App C-IIAPPROVED (11-0-0)	Reviewer: vx
R	R1945 (Replacing 1007) Tian, Lin Title: Imaging neural activity with genetically encoded calcium indicators (GECIs) NIH Guideline: III-D-1-a APPROVED (11-0-0)	Reviewer: az
R	R1952 (Replacing 0759)Title: Cancer models and genetically engineered miceNIH Guideline:III-D-3-a, III-D-4-aAPPROVED (11-0-0)	Reviewer: jb
Belcord arrive	d	
R	R1966 (Replacing 0984B) Title: Developmental therapeutics of pancreas and prostate cancer NIH Guideline: III-D-4-a/b APPROVED (12-0-0)	Reviewer: vx
R	 R1968 (Replacing 1011,) Title: Aquatic Animal Health Research NIH Guideline: III-D-1-a <i>TABLED (12-0-0)</i> The IBC requested PI to submit a revised BUA amendment to address the comments listed below: 1. Delineate experiments with RG2 organisms from that of RG1 organisms. 2. Expand risk assessment to address handling RG2 organisms and potential risk to human health. 3. Define waste practices for fish carcasses. 4. Separate and clarify the experimental operations with warm blooded samples and cold blooded animals. 	Reviewer: jb
R	BBP onlyR1716 (Replacing 0949)Hertz-picciotto, IrvaTitle:Early Autism Risk Longitudinal Investigation (EARLI)NIH Guideline:N/A	Reviewer: az

APPROVED (12-0-0)

R	· · · ·	eplacing 0888) Validation of a WF NIH Guideline: <i>APPROVED</i> (12)	3C-Differential Point-of-Care Instrument N/A	Reviewer: vx
Ν	R1974 Title:	Serum Proteomics NIH Guideline: <i>APPROVED</i> (12-	Phinney, Brett and Amino Acid Analysis N/A -0-0)	Reviewer: jb
Ν	R1979 Title:	Accuracy evaluation NIH Guideline: APPROVED (12)	Hull, Maury on of robotic-assisted total joint replacement N/A -0-0)	Reviewer: vx
R		eplacing 0889) Agroinfiltration of NIH Guideline: APPROVED (12)	III-E-2-a, III-E	Reviewer: jb
R		eplacing 0107-02) Biology and contro NIH Guideline: <i>APPROVED</i> (12-	ol of phytopathogenic fungi III-E	Reviewer: vx
R		eplacing 0051-03) Transient expression of plant tissue NIH Guideline: APPROVED (124)	on of heterologous proteins by Agroinfiltration III-E-2	Reviewer: az
R	· ·		Gubler, W. Douglas miology of grapevine canker pathogens N/A -0-0)	Reviewer: vx
	ndments : amendmen	•*•		
010	BSL2			.
Title:	R1528 Anti-cance Amendme		atory activities of phytochemicals	Reviewer: jb
	Amename		Salmonella enterica	

2. Mice and mouse tissue

B.

NIH Guidelines: N/A *APPROVED* (12-0-0)

R1660

Title: Infectious diseases of dogs and cats and zoonotic bloodborne bacterial infections

Amendment to add:

- 1. Methicillin sensitive Staphylococcus aureus
- 2. Inoculation of mice with the luminescent MSSA

NIH Guidelines: III-F

APPROVED (12-0-0)

R1709

Title: 3D Molecular Imaging of Tissue

Amendment to add:

1. Madin–Darby canine kidney (MDCK) cells and tissues/organs from guinea pigs that are infected with fluorescent labeled PR8 Influenza A virus.

NIH Guidelines: III-D-1-a, III-D-4-a *APPROVED* (12-0-0)

<u>BSL1</u>

R1847

Title: The study of mouse and human pancreatic islets.

Amendment to add:

- 1. Adeno-associated Virus Vector
- 2. Human and mouse cells
- NIH Guidelines: III-D-3-e, III-F

APPROVED (12-0-0)

C. Storage Only:

R1976

Tai, Tomas

Reviewer: jb

Reviewer: az

Title: Generation and characterization of novel genetic variation in rice for the NIH Guidelines: III-E-2

APPROVED (12-0-0)

D. Conditional BUAs reviewed by ABSO, Final Approval by BSO:

Ν	R1828	Schivo, Michael	Reviewer: WCG-cj
	Title:	Identifying rhinovirus infection in human breath	
		Conditional Approval Date: 4/20/2015	
N	R1914	Pearson, Garry	Reviewer: jb

Title: Growth of transgenic tomatoes that express apoA-I mimetic peptides

Reviewer: jb

Reviewer: az

June 15, 2015 Minutes DRAFT

E. Terminated BUAs: None

V. Discussion Items:

- 1. Disposition of bedding from animals injected with recombinant plasmids Xian & Barruel After discussion, the IBC decided that the animal bedding from the first cage change post adminstration of recombinant or synthetic nucleic acids should be autoclaved before disposal.
- 2. IBC members re-appointment Barruel All IBC members in attendance agreed to be re-appointed as IBC members for another year.

VI. Information Items: None

VII. IBC Training: None

VIII. BSL3 Laboratory Information: None

- IX. Notifications: None
- X. Subcommittee Topics: None

EndTime: 5:00 pm

Minutes

July 20, 2015 (3-5pm)

Hoagland Hall Rm 130 NOTE: Next IBC meeting: 8/17/2015

Start Time: 3:05pm

In attendance:

Gerhard Bauer	Voting Member, Vice-Chair, IM Div of Hematology/Oncology
Philip Barruel	Voting Member, Biosafety Officer, Environmental Health and Safety
Roger Belcourt	Voting Ex-Officio Member, Occupational Health Services
	Voting Member, Campus Veterinary Services
Diane Hoffmann	Voting Member, School of Medicine Sponsored Programs
Fred Jacobsen	Voting Member, Public Member
	Voting Ex-Officio Member, Attending Veterinarian
	Voting Member, Animal Science
Renee Tsolis	Voting Member, Medical Microbiology & Immunology

IBC support staff in attendance:

James Baugh	Associate Biosafety Officer, Environmental Health and Safety
Vivian Xian	Associate Biosafety Officer, Environmental Health and Safety
Adrienne Zweifel	Associate Biosafety Officer, Environmental Health and Safety

Excused:

Lacuscut	
Angela Gelli	Voting Member, Chair, Pharmacology
Sue Bodine	Voting Member, Neurobiology, Physiology, and Behavior
William Buhles	Voting Member, Public Member
Bruce Draper	Voting Member, Molecular & Cellular Biology
Johan Leveau	Voting Member, Plant Pathology
	Voting Member, (Alternate) Campus Veterinarian
Lyle Najita	Voting Member, Public Member
Ioannis Stergiopoulos	Voting Member (alternate), Plant Pathology
Thomas Ferguson	Non-Voting Ex-Officio Member, Medical Director, SHCS
Jill Blackwelder-Parker	Non-Voting Ex-Officio Member, Associate Vice Chancellor, Safety Services
Neil Speth	Non-Voting Ex-Officio Member, UCDMC Employee Health Services

Guests:

Abhaya Dandekar
Kristine Godfrey
Lorence Oki
Bruno Pitton

PI, Plant Sciences PI, Agr & Env Sci PI, Plant Sciences **Plant Sciences** PI, Vm: Medicine & Epidemiology

Review of past IBC meeting minutes: I. June 15, 2015

APPROVED (8-0-0)

II. Announcements: None

III. Old Business:

BSL2

R R1968 (Tabled 6/15/15) Reviewer: jb Title: <u>Aquatic Animal Health Research</u> NIH Guideline: III-D-1-a <u>APPROVED</u> (8-0-0)

Tsolis arrived

BSL1

 R
 R1511 (Tabled 2/24/14)
 Oki, Lorence
 Reviewer: az

 Title:
 Slow sand and vegetated filters for the removal of plant
 NIH Guideline:
 N/A

 APPROVED (9-0-0)
 (9-0-0)
 (9-0-0)
 (9-0-0)

 R
 R1901 (Tabled 6/15/15)
 Dandekar, Abhaya
 Reviewer: az

 Title:
 Functional Analysis of quality and productivity traits in crop
 NIH Guideline:
 III-E-2-a, III-E-2-b-(3), III-E-2-b-(4), III-E

 NIH Guideline:
 III-E-2-a, III-E-2-b-(3), III-E-2-b-(4), III-E
 APPROVED (8-0-0) (This BUA was review before BUA R1511)

IV. New Business

A. New and renewal BUAs for review:

BSL3

Ν	R2003	Godfrey, Kristine	Reviewer: az
	Title:	Transmission of Liberibacter spp. by Asian citrus psyllid	
		NIH Guideline: N/A APPROVED (9-0-0)	

BSL2

 R
 R1958 (Replacing 0505)
 Smith, Gary
 Reviewer: jb

 Title:
 Survival of food-borne pathogens and activation of polyphenol
 oxidase

 NIH Guideline:
 III-D-1-a, III-D-2-a
 APPROVED (9-0-0)

 R
 R1972 (Replacing 0603)
 Stephensen, Charles
 Reviewer: vx

 Title:
 Dietary modulation of immune function
 NIH Guideline:
 N/A

 APPROVED (9-0-0)
 (9-0-0)

R	,	placing 0786)Knoepfler, PaulAnalyzing Myc and H3.3 function in neural cancers andNIH Guideline:III-D-1, III-E-3APPROVED (9-0-0)	Reviewer: jb
Ν	R2018 Title:	Stem cell gene therapy for hiv mediated by lentiviral vector transduced, pre-selected cd34+ cells NIH Guideline: III-D-3-a, III-D-4-a APPROVED (9-0-0)	Reviewer: vx
left the r	neeting		
R		eplacing 0766)Gilchrist, David <u>Transgenic over expression of anti-apoptotic plant genes to</u> NIH Guideline:III-E-2 APPROVED (8-0-0)	Reviewer: jb
came ba	ick to the me	peting	
R		eplacing 0439)Britt, AnnePlant response to DNA double strand breaks/UniparentalinheritanceNIH Guideline:III-E-2-aAPPROVED (9-0-0)	Reviewer: az
R	,	Eplacing 1012)EplacingFish biomarker study - production of recombinant protein usingNIH Guideline:III-E, III-F, App C-IIAPPROVED (9-0-0)	Reviewer: vx
R		eplacing 0896)Atsumi, ShotaBiochemical production from Escherichia coli and cyanobacteriaNIH Guideline:III-E-1APPROVED (9-0-0)	Reviewer: az
N	R1996 Title:	Borodinsky, Laura <u>Mechanisms of spinal cord and muscle development and</u> NIH Guideline: III-E-1 <u>APPROVED</u> (9-0-0)	Reviewer: az
	endments : amendmen		
	<u>BSL3</u> R1765	Godfrey, Kristine mixed infections of plan pathogens on detection of HLB using two	Reviewer: az

Amendment to add:

1. Closteroviruses (citrus tristeza virus - 2

isolates)

NIH Guidelines: N/A

APPROVED (9-0-0)

BSL2 **R1918** Reviewer: vx Title: Genetic and Cellular Treatments for Age-Related Macular Degeneration Amendment to add: 1. Lentiviral vector and AAV vector 2 Mice 3. Nucleic acid NIH Guidelines: III-D-3-a, III-D-3-e, III-D-4-a **APPROVED** (9-0-0) BSL2 0899 Reviewer az Title: Beneficial effects of lactic acid bacteria and commensals associated with plants, foods and mammalian guts Amendment to add: 1. Streptococcus agalactiae and Staphylococcus aureus NIH Guidelines: N/A **APPROVED** (9-0-0) C. Storage Only: None D. Conditional BUAs reviewed by ABSO, Final Approval by BSO: None **E. Terminated BUAs:** 0459-04 Reviewer: pb Title: Effect of minerals on broiler performance during a coccidiosis challenge Exp date: 06/18/2015

0761

Wood, Matthew

Reviewer: mm

Title: Creation of an oxidative stress biosensor for use in plants Exp date: 06/18/2015

V. Discussion Items:

- USDA Notice of Compliance with Comments Barruel The BSO explained to the IBC about USDA's reporting requirement outlined in the permit conditions to the PI.
- Dual Use Research of Concern (DURC) Barruel The BSO presented DURC requirements to the IBC. The IBC agreed (by a vote of 9-0-0) to form an Institutional Review Entity as a separate group which will be constituted mostly by IBCmembers.

- 3. When should an amendment become a separate BUA? Barruel *Postponed*
- 4. BUAs required for multicellular parasites (as we do for unicellular pathogens)? Barruel *Postponed*
- Extension of BUA 0986 (Gupta, Munish) Baugh IBC approved (9-0-0) to extend this BUA in "Storage only" status through September 2015 until a new faculty is appointed to take over the project.

VI. Information Items: None

- VII. IBC Training: None
- VIII. BSL3 Laboratory Information: None
- IX. Notifications: None
- X. Subcommittee Topics: None

EndTime: 5:05 pm

Minutes

August 17, 2015

Hoagland Hall Rm 130 NOTE: Next IBC meeting: 09/21/2015

Start Time: 3:00pm

In attendance:

Angela Gelli	Voting Member, Chair, Pharmacology
Gerhard Bauer	Voting Member, Vice-Chair, IM Div of Hematology/Oncology
Sue Bodine	Voting Member, Neurobiology, Physiology, and Behavior
William Buhles	Voting Member, Public Member
	Voting Member, Campus Veterinary Services
Diane Hoffmann	Voting Member, School of Medicine Sponsored Programs
Fred Jacobsen	Voting Member, Public Member
Johan Leveau	Voting Member, Plant Pathology
	Voting Ex-Officio Member, Attending Veterinarian
	Voting Member, Animal Science
Lyle Najita	Voting Member, Public Member

IBC support staff in attendance:

James Baugh	Associate Biosafety Officer, Environmental Health and Safety
Vivian Xian	Associate Biosafety Officer, Environmental Health and Safety
Adrienne Zweifel	Associate Biosafety Officer, Environmental Health and Safety
Excused:	

Lineabeat	
Philip Barruel	Voting Member, Biosafety Officer, Environmental Health and Safety
Roger Belcourt	Voting Ex-Officio Member, Occupational Health Services
Bruce Draper	Voting Member, Molecular & Cellular Biology
	Voting Member, (Alternate) Campus Veterinarian
Ioannis Stergiopoulos	Voting Member (alternate), Plant Pathology
Renee Tsolis	Voting Member, Medical Microbiology & Immunology
Thomas Ferguson	Non-Voting Ex-Officio Member, Medical Director, SHCS
Jill Blackwelder-Parker	Non-Voting Ex-Officio Member, Associate Vice Chancellor, Safety Services
Neil Speth	Non-Voting Ex-Officio Member, UCDMC Employee Health Services

Guests: None

I. Review of past IBC meeting minutes:

July 20, 2015 APPROVED (6-0-5, SB, WB, AG, JL and LN abstained)

II. Announcements: None

III. Old Business: None

IV. New Business

A. New	and renewal BUAs for review:	
R	BSL2 R1961 (Replacing 0830-01B) Title: Sodium channel pharmacology and genetics NIH Guideline: App C-1 APPROVED (11-0-0)	Reviewer: az
Ν	R1983 Image: Constraint of the second se	Reviewer: vx
R	R1994 (Replacing 0863-02) Title: Generation of induced pluripotent stem cell and neural cells NIH Guideline: IIID1, IIID4a APPROVED (11-0-0)	Reviewer: jb
R	R1999 (Replacing 0595)Kado, NormanTitle:Bioassay Analyses of Environmental PollutantsNIH Guideline:N/AAPPROVED (11-0-0)	Reviewer: vx
R	R2012 (Replacing 0892) Title: Electric fields directed cell migration and wound healing and regeneration NIH Guideline: IIID3a, IIID4b, IIIF8, App C-II APPROVED (11-0-0)	Reviewer: vx
R	R2013 (Replacing 0531-02) Examining complement pathways in the posterior pole of the Title: Title: vertebrate eye. NIH Guideline: IIID4a APPROVED (11-0-0)	Reviewer: az
Ν	R2028Genomic and functional characterization of human-specific complex traits and disorders NIH Guideline: IIID2a, IIIF1 CONDITIONALLY APPROVED (11-0-0) The IBC requested that the following comment(s) be addressed before final approval is granted:1.Please clarify the source of the primate cells that intend on 2.2.Please clarify the species of primate cells that intend on testing.	Reviewer: jb
	2. Thease clarify the species of primate cens that mend on testing.	

	 Please clarify whether these primate cells are screened for the presence of any infectious agents. Please clarify whether these primate cells could harbor the Herpes B virus. 	
R	R2033 (Replacing 0849-03) Title: A gene therapy strategy for the production of recombinant feline erythropoietin in cats NIH Guideline: IIID1 APPROVED (11-0-0)	Reviewer: jb
R	BBP only R2007 (Replacing 0688) Berglund, Lars Regulation of Lipoprotein(a) Metabolism in Humans with Special Title: Reference to Ethnicity, Genetics and HIV infection NIH Guideline: N/A APPROVED (11-0-0)	Reviewer: az
R	R1611 (Replacing 0969B) Gaikwad, Nilesh Metabolic signatures of human diseases and their modulation Title: using natural compounds NIH Guideline: N/A APPROVED (11-0-0)	Reviewer: az
R	BSL1 R2010 (Replacing 0441) Callis, Judy Title: Molecular studies on proteolysis and on pfkb proteins in plants NIH Guideline: IIIE2, App C-II, App C-III APPROVED (11-0-0)	Reviewer: az
	ndments : amendment:	
Title	BSL1 R1853 Investigation of the biologic function of MeCP2e1 Amendment to add: 1. Adeno-associated Virus Vector NIH Guidelines: IIID4a, IIIE1	Reviewer: jb
	APPROVED (11-0-0)	
Amendments on SmartSite (old form):		
	BSL2 0796-02B(B) Lam, Kit	Reviewer: az
Title	: Use of human/blood/tissue/cell lines to identify cancer targeting ligands	uz
	Amendment to add:	
	1. Lentiviral vector	

2. Human cell line NIH Guidelines: IIID1a **APPROVED** (11-0-0)

0928 (A)

Title: Mammalian virology in a veterinary diagnostic laboratory Amendment to add:

1. BPSV and Influenza H3N2

NIH Guidelines: N/A

CONDITIONALLY APPROVED (11-0-0)

The IBC requested that the following comment(s) be addressed before final approval is granted:

- 1. Discuss whether the newly added Influenza H3N2 is known to infect humans?
- 2. Specify whether you will be culturing either of these agents then storing them or will you just be handling the tissues containing these agents and will subsequently store them long term.
- 3. In the BPS section, IBC reviewers had issues with the sentence "Although the disease is mild, foot-and-mouth disease must be ruled out" as it is unclear why this was brought up. More information is needed, or deletion of this sentence is recommended.
- 4. In the Influenza section, IBC reviewers would like you to specify whether the flu vaccination is available, but not required. Also state whether the current flu vaccine includes this strain. If this strain of influenza is not known to infect humans, state this in the justification.
- 5. 6. Please reiterate whether these tubes will be disinfected with 10% bleach before removing them from the BSC.

1036B(A)

Reviewer: az Title: Engineering articular cartilage using human dermis-derived stem cell and chondrocytes

Amendment to add:

1 Adenovirus

NIH Guidelines: IIID4a **APPROVED** (11-0-0)

C. Storage Only:

R **R1997** (Replacing 0890-1) Parfitt, Dan Reviewer: vx (Storage only) Horticultural crop genomics: Genetic resources diversity and Title: integrated pest management

> NIH Guidelines: N/A **APPROVED** (11-0-0)

R R2005 (Replacing 1013, SOP) Senties-Cue, Carlos

Title: (Storage only) Characterization of a Coxiella-like organism NIH Guidelines: N/A **APPROVED** (11-0-0)

Page 4 of 6

Reviewer: az

Reviewer: jb

D. Conditional BUAs reviewed by ABSO, Final Approval by BSO: None

E. Terminated BUAs: None 0743-01 Reviewer: nld Title: Aspergillus inoculum dose-range finding study for a quail model of aspergillosis

Exp date: 08/20/2015

0762

Labavitch, John

Title: <u>Functional analysis of plant gene function based on transgenic expression in tomato,</u> <u>rice, Brachypodium, grape, Arabidopsis thaliana and/or E. coli.</u> in canine brains *Exp date:* 08/20/2015

 1010B
 Lane, Nancy
 Reviewer: pb

 Title:
 Augmentation of bone formation by mesenchymal stem cells transplantation or targeting
 cell fates

 cell fates
 Exp date: 08/20/2015
 Exp date: 08/20/2015

1014BHu, JerryReviewer:pbTitle:Engineering articular cartilage using human dermis-derived stem cells and chondrocytesExp date: 08/20/2015

V. Discussion Items: None

- 1 When should an amendment become a separate BUA? Barruel Postponed to the September meeting
- 2 BUAs required for multicellular parasites (as we do for unicellular pathogens)? Barruel Postponed to the September meeting

VI. Information Items:

1. DURC slides from one of the Discussion Items of the July 2015 IBC meeting DURC slides were made available to all IBC members.

VII. IBC Training:

1. NIH Guidelines sections IIIF and IIIE Postponed to the September meeting

VIII. BSL3 Laboratory Information: None

IX. Notifications: None

X. Subcommittee Topics: None

EndTime: 4:40 pm

Reviewer: mm

Institutional Biosafety Committee, UC Davis

Office of Environmental Health and Safety

Minutes Sept 21, 2015 (3:00 – 5:00 PM)

Hoagland Hall, Rm 130

Voting Member, Chair, Pharmacology

In attendance:

Angela Gelli Gerhard Bauer Philip Barruel Roger Belcourt William Buhles

Bruce Draper Diane Hoffmann Fred Jacobsen Johan Leveau

Lyle Najita Renee Tsolis

James Baugh

Chelsea Schiano

Adrienne Zweifel

IBC support staff in attendance:

endance: Associate Biosafety Officer, Environmental Health and Safety High Containment Facility Manager, Environmental Health and Safety Associate Biosafety Officer, Environmental Health and Safety Associate Biosafety Officer, Environmental Health and Safety

Excused:

Sue Bodine

Vivian Xian

Ioannis Stergiopoulos Thomas Ferguson Jill Blackwelder-Parker

Neil Speth

Guests: None

Voting Member, Neurobiology, Physiology, and Behavior Voting Member, (Alternate) Campus Veterinarian Voting Member, Animal Science Voting Member (alternate), Plant Pathology Non-Voting Ex-Officio Member, Medical Director, SHCS Non-Voting Ex-Officio Member, Associate Vice Chancellor, Safety Services Non-Voting Ex-Officio Member, UCDMC Employee Health Services

Call to Order: A quorum was established with 11 voting members present and the Institutional Biosafety Committee (IBC) was called to order at 3:00 pm by Angela Gelli, IBC Chair.

I. Review of past IBC meeting minutes: August 17, 2015 APPROVED (11-0-0)

Voting Ex-Officio Member, Director, Occupational Health Services Voting Member, Public Member Voting Member, Campus Veterinary Services Voting Member, Molecular & Cellular Biology Voting Member, School of Medicine Sponsored Programs Voting Member, Public Member Voting Member, Plant Pathology Voting Ex-Officio Member, Attending Veterinarian Voting Member, Public Member Voting Member, Public Member Voting Member, Medical Microbiology & Immunology

Voting Member, Vice-Chair, IM Div. of Hematology/Oncology

Voting Member, Biosafety Officer, Environmental Health and Safety

II. Announcements:

1. Welcome Chelsea Schiano, High Containment Facility Officer

III. Old Business: None

IV. New Business:

A. New and renewal BUAs for review:

Belcourt arrived

BSL2 N R1851 Comparative Biology of Canine Glioma and Neural Stem Cells NIH Guideline: IIID3b, IIF8, App C-II APPROVED (12-0-0)	Reviewer: vx
R R2025 (Replacing 0774-02) <u>The Regulation of Glucocorticoid Receptor, Endogenous</u> <u>Retroviruses, and other Retroelements after Burn Injury</u> NIH Guideline: IIID1 <u>APPROVED (12-0-0)</u>	Reviewer: az
N R2040 <u>Local Calcium Signaling in Muscle</u> NIH Guideline: IIID1a, IIID4a <u>APPROVED (12-0-0)</u>	Reviewer: az
R R2042 (Replacing 1015B) <u>Wound healing</u> NIH Guideline: IIID4b <u>APPROVED</u> (12-0-0)	Reviewer: vx
N R2053 <u>Genetic Analysis of Mammalian Eye Development</u> NIH Guideline: IIID1a <u>APPROVED (12-0-0)</u>	Reviewer: az
Tsolis arrived	
R R2061 (Replacing 0986, Gupta, M) <u>Spinal implant infection model in rabbits</u> NIH Guideline: N/A <i>TABLED</i> (13-0-0)	Reviewer: jb

The IBC requested PI to submit a revised BUA to address the comments listed below:

1) Can the lab work with a less dangerous strain of Staph aureus for these experiments?

2) Expand animal study section to address how the lab will handle shedding of the infectious bugs from the wound site, cage decontamination, animal restraint during surgical procedure, and sonication of sharp object procedures. 3) Clarify where the animal work will take place room surgical procedure and animal housing location, as well as waste accumulation site.

N	R2073 Evaluation of biological constituents NIH Guideline: IIID2a, IIIF8, App C-I APPROVED (13-0-0)		Reviewer: jb
N	R2077 <u>The Role of Glioma Stem Cells in Tu</u> NIH Guideline: IIID3b, IIID4b, IIF8, A APPROVED (13-0-0)		Reviewer: vx
	BP only R2031 (Replacing 0830-01B) <u>MicroRNA Biomarkers for AMD and</u> NIH Guideline: N/A APPROVED (13-0-0)	•	Reviewer: az
R	R2046 (Replacing 0635, Brown, K) <u>Micronutrient absorption, metabolisn</u> <u>populations at risk of deficiency</u> NIH Guideline: N/A <u>APPROVED (13-0-0)</u>	•	Reviewer: vx
N	R2079 <u>Micronutrient absorption, metabolism</u> <u>populations at risk of deficiency</u> NIH Guideline: N/A <u>APPROVED (13-0-0)</u>	Hess, Sonja <u>n and status in</u>	Reviewer: vx
_	<u>SL1</u> R2023 (Replacing 0278-02) <u>Splice-specific disruption of NCoR co</u> NIH Guideline: IIIE3a <u>APPROVED (13-0-0)</u>	Privalsky, Martin orepressor expression	Reviewer: jb
R	R2027 (Replacing 0735) <u>Cloning, expression, and characteriz</u> NIH Guideline: IIIE, IIID2a <u>APPROVED (13-0-0)</u>	Chen, Xi zation of carbohydrate biosy	Reviewer: vx nthetic enzymes
R	R2038 (Replacing 0640)		Reviewer: vx

September 21, 2015 FINAL

<u>Analysis of gametogenesis budding yeast and zebrafish</u> NIH Guideline: IIID4a, IIIF8, App C-II, C-III <u>APPROVED (12-0-1, Draper abstained)</u>

- R **R2047** (Replacing 0763) <u>Mechanisms of zebrafish gonad formation and function</u> NIH Guideline: IIID4a <u>APPROVED (12-0-1, Draper abstained)</u>
- R **R2048** (Replacing 0470-01) Bostock, Richard Reviewer: jb <u>Mechanisms of resistance and susceptibility in plant-microbe interactions</u> NIH Guideline: IIIE2a, IIIE2b3, IIIE2b4 <u>APPROVED (13-0-0)</u>
- R **R2049** (Replacing 0470-02) Bostock, Richard Reviewer: jb <u>Etiology, Epidemiology and Management of Orchard Crop Diseases</u> NIH Guideline: N/A <u>APPROVED (13-0-0)</u>
- R **R2050** (Replacing 0106) Liu, Bo Reviewer: jb <u>Studies of the Cytoskeleton in Higher Plants and the Fungus Aspergillus nidulans</u> NIH Guideline: IIID2a <u>APPROVED (13-0-0)</u>
- R
 R2054 (Replacing 0894)
 Davis, Richard
 Reviewer: jb

 Vegetable and Field Crop Pathology Research
 NIH Guideline: N/A
 TABLED (13-0-0)

The IBC requested PI to submit a revised BUA to address the comments listed below:

- 1) Clarification on the status of the lab, is the PI retired?
- 2) Is work actively being performed? The current application needs clarification.

B. Amendments:

BIO amendment: BSL3 R1722 Avian virology in a veterinary diagnostic laboratory NIH Guideline: N/A APPROVED (13-0-0)

<u>BSL2</u>

R1583 Engineering Vascular Beds NIH Guideline: IIID4a APPROVED (13-0-0) Reviewer: az

Reviewer: az

Reviewer: az

R1592 Role of NK cell subsets in MCMV and influenza infection NIH Guideline: N/A APPROVED (13-0-0)	Reviewer: az	
R1650 <u>Effects of stress on brain and behavior</u> NIH Guideline: IIID1a, IIID4a <u>APPROVED (13-0-0)</u>	Reviewer: jb	
Amendment on SmartSite (old form): None		
Belcourt stepped out		
C. Storage only:		
R R2074 (Replacing 1052) Parkinson, Nina <u>STORAGE ONLY: Clostridium botulinum spore collection</u> NIH Guideline: N/A <u>APPROVED (12-0-0)</u>	Reviewer: az	
Belcourt came back, Gelli left		
D. Conditional BUAs reviewed by ABSO, Final Approval by BSO: N R2028 Dennis, Megan Genomic and functional characterization of human-specific complex traits and disorders NIH Guideline: IIID2a, IIIF1 Conditional Approval Date: 8/17/2015	Reviewer: jb	
A 0928 (A) <u>Mammalian virology in a veterinary diagnostic laboratory</u> Amendment to add: BPSV and Influenza H3N2 NIH Guideline: N/A <i>Conditional Approval Date: 8/17/2015</i>	Reviewer: az	
E. Terminated BUAs: 0891B Cherr, Gary Defensins at the interface of male and female innate immunity Exp date: 08/20/2015	Reviewer: pb	
 V. Discussion Items: 1. When should an amendment become a separate BUA? – Barruel The IBC decided that the determination should be made on a case-by-case basis using the following general criteria: 1) Whether or not a BUA has clear descriptions on what is being done with all the organisms listed; and 		
2) If all the research activities fit under the same general objective	es.	

2. BUAs required for multicellular parasites (as we do for unicellular ones)? – Barruel The IBC decided that BUAs are required and they should be reviewed by the IBC since multicellular parasites are pathogens.

VI. Information Items: None

VII. IBC Training:

 NIH Guidelines sections IIIF PowerPoint slides used for the training session will be made available to the IBC members next month.

VIII. BSL3 Laboratory Information:

1. CAHFS BSL3 annual re-verification

The CAHFS BSL3 facility was tested on August 6, 2015 during the UCOP High-Containment Program Site Visit. The BSL3 facility passed the HVAC failure test. Although there was a brief airflow reversal from 1307C (exit room outside of the main laboratory) into 1305C (outside of containment), it does not pose a significant risk of loss of containment. The IBC voted (12-0-0) to approve the operation of the facility for another year.

- IX. Notifications: None
- X. Subcommittee Topics: None

Adjournment: The meeting was adjourned at 5:00 pm.

Institutional Biosafety Committee, UC Davis

Office of Environmental Health and Safety

Minutes October 19, 2015 (3:00 – 5:25 PM) Hoagland Hall, Rm 130

In attendance:

Gerhard Bauer Philip Barruel Roger Belcourt William Buhles

Bruce Draper Fred Jacobsen

Ioannis Stergiopoulos

IBC support staff in attendance:

James Baugh Chelsea Schiano Vivian Xian Adrienne Zweifel James Klenner dance: Associate Biosafety Officer, Environmental Health and Safety High Containment Facility Manager, Environmental Health and Safety Associate Biosafety Officer, Environmental Health and Safety Associate Biosafety Officer, Environmental Health and Safety Consultant, WCG

Excused:

Angela Gelli Sue Bodine Diane Hoffmann <u>Johan L</u>eveau

Thomas Ferguson Lyle Najita Renee Tsolis Jill Blackwelder-Parker

Neil Speth

Guests:

Aaron JacobsonPlant SciencesSumathi SankaranMedical Microbiology and Immunology

Call to Order: A quorum was established with 9 voting members present and the Institutional Biosafety Committee (IBC) was called to order at 3:00 pm by Gerhard Bauer, IBC Vice-Chair.

Voting Member, Chair, Pharmacology

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Voting Member, School of Medicine Sponsored Programs
Voting Member, Plant Pathology
Voting Member, (Alternate) Campus Veterinarian
Non-Voting Ex-Officio Member, Medical Director, SHCS
Voting Member, Public Member
Voting Member, Medical Microbiology & Immunology
Non-Voting Ex-Officio Member, Associate Vice Chancellor,
Safety Services
Non-Voting Ex-Officio Member, UCDMC Employee Health Services
-

Voting Member, Neurobiology, Physiology, and Behavior

Voting Member, Vice-Chair, IM Div. of Hematology/Oncology Voting Member, Biosafety Officer, Environmental Health and Safety Voting *Ex-Officio* Member, Director, Occupational Health Services Voting Member, Public Member Voting Member, Campus Veterinary Services Voting Member, Molecular & Cellular Biology Voting Member, Public Member Voting *Ex-Officio* Member, Attending Veterinarian Voting Member, Animal Science Voting Member (alternate), Plant Pathology

- I. Review of past IBC meeting minutes: September 21, 2015 APPROVED (8-0-1, abstained)
- II. Announcements: None
- III. Old Business:

Arrived

BUA tabled at the Sept 21, 2015 IBC meeting: BSL1

R **R2072** (was R2054 Replacing 0894) Davis, Richard Reviewer: jb <u>Plant pathogen etiology, transmission and resistance</u> NIH Guideline: N/A **TABLED** (10-0-0) at BSL1

The IBC requested PI to submit a revised BUA to address the comments listed below:

- 1) Please clarify whether you are culturing Pseudomonas syringe, *Verticillium dahlia*, and *Fusarium oxysporum*.
- 2) Please clarify what research operations you intend on performing with each of the following microbes: *Pseudomonas syringe*, *Verticillium dahlia*, and *Fusarium oxysporum*.
- 3) Please clarify whether you intend on growing plants.
- 4) Please clarify where you intend on growing these plants and what research you intend on performing with them.

IV. New Business:

A. New and renewal BUAs for review:

HGT N C1960 Dose-escalation study of factor IX gene] in subjects with her NIH Guideline: IIIC, IIID1a APPROVED (10-0-0) at BSL2	Ducore, Jonathan [adeno-associated viral v nophilia B	Reviewer: jk <u>ector with human</u>
BSL3 R R2096 (Replacing 0400) <u>HIV and SIV pathogenesis</u> NIH Guideline: IIIE1 <i>APPROVED (10-0-0) at BSL3</i> BSL 3P	Dandekar, Satya	Reviewer: cs

<u>BSL3P</u>

R **R2030** (Replacing 0897-01) Slupsky, Carolyn Reviewer: jb <u>The interaction between host organisms and microbes in health and disease</u> NIH Guideline: N/A The IBC stipulated that use of 70% Ethanol was not an adequate means of decontaminating centrifuge buckets used with cells of human origin. The IBC requires the utilization of a hospital grade disinfectant that is proven to neutralize all potential human bloodborne pathogens.

APPROVED (10-0-0) at BSL3P

R **R2058** (Replacing 0225)Dandekar, AbhayaReviewer: azCitrus Health and ManagementNIH Guideline: IIID, IIIENIH Guideline: IIID, IIIECONDITIONALLY APPROVED (10-0-0) at BSL3P

The IBC requested that the following comment(s) be addressed before final approval is granted:

- 1) Provide more information regarding the duration of the life cycle of the insect vector and whether the length of infection allows time for them to breed.
- 2) Explain how the insect vectors are counted and contained.

BSL2

- R R2055 (Replacing 0581)
 Harris, Linda
 Reviewer: vx

 Enteric pathogens associated with foods and the environment
 NIH Guideline: N/A

 APPROVED (10-0-0) at BSL2
- R R2056 (Replacing 0084-03)Mills, DavisReviewer: vxSelective enrichment of gut bacteria by oligosaccharidesNIH Guideline: IIIE, IIIF8, App C-IIAPPROVED (10-0-0) at BSL2
- R **R2057** (Replacing 1017) Adams, Jason Reviewer: jb <u>Identification of novel bacterial virulence factors by whole-genome sequencing of</u> <u>pathogens in sepsis</u> NIH Guideline: IIIF1 <u>APPROVED (10-0-0) at BSL2</u>
- R **R2062** (Replacing 0731-02) <u>Co-infection with malaria and non-typhoidal Salmonella (NTS)</u> NIH Guideline: N/A <u>APPROVED (10-0-0) at BSL2</u>
- R R2064 (Replacing 0033-02)Payne, JohnReviewer: jkRegulation of intracellular [Cl-] in vertebrate cardiomyocytesNIH Guideline: IIID3a, IIID1aAPPROVED (10-0-0) at BSL2
- R **R2069** (Replacing 0575) Conley, Alan Reviewer: vx Comparison of tissue and species specific differences between recombinant steroidogenic cytochromes P450 and redox partner proteins with their primary tissue counterparts

NIH Guideline: IIIE, IIIF8, App C-II APPROVED (10-0-0) at BSL2

- N **R2080** Stergiopoulos, Ioannis Reviewer: vx <u>Monitoring of azole susceptibility in *Aspergillus fumigatus* and inhibiting aflatoxin production in *Aspergillus flavus* and *Aspergillus parasiticus*. NIH Guideline: IIID1a, IIIE *APPROVED (10-0-0) at BSL2*</u>
- R R2084 (Replacing 1022B)Wan, Yu-JuiReviewer: jbRetinoic acid, its receptors, and the liverNIH Guideline: IIID3a, IIID4aAPPROVED (10-0-0) at BSL2

The IBC requested clarification of engineering controls utilized throughout the human blood handling operations, prior to approval.

R **R2087** (Replacing 0881B) <u>Linking contractile dysfunction to cardiac arrhythmias</u> NIH Guideline: N/A *TABLED (10-0-0)*

The IBC requested that the PI submit a revised BUA to address the comments listed below: The submitted BUA was extremely vague and devoid of pertinent details regarding the use of the cell types. A risk assessment was not possible and without a review, the study was tabled. The PI will be requested to resubmit with specific details in each section.

Jacobsen left the meeting

 R R2089 (Replacing 1024)
 Reviewer: jb

 Bovine Mastitis Pathogen Research
 NIH Guideline: IIIF1

 APPROVED (9-0-0) at BSL2
 Reviewer: jb

Jacobsen came back to the meeting

N **R2098** (BSL2P) Falk, Bryce Reviewer: cs <u>Evaluation of a bacteriphage complex for effects against *Xylella fastidiosa*, causal <u>agent of Pierce's Disease of grapevines</u> NIH Guideline: N/A <u>CONDITIONALLY APPROVED (10-0-0) at BSL2</u></u>

The IBC requested that the following comment(s) be addressed before final approval is granted:

The PI must describe containment measures that will be used to ensure that the bacteriophage complex is not spread to neighboring grapevines and the environment. The host range of the bacteriophage complex should be defined.

N R2100

Privalsky, Martin

Reviewer: jb

Reviewer: jk

 Study of human Resistance to Thyroid Hormone Syndrome using replication

 defective adenoviral vectors

 NIH Guideline: IIID3a

 APPROVED (10-0-0) at BSL2

 R
 R2105 (Replacing 0648)

 Powers, Edmund
 Reviewer: jb

 TOR Signaling in Yeast and Mammalian Cells

 NIH Guideline: IIIF6

 APPROVED (10-0-0) at BSL2

- R **R2109** (Replacing 1028) Persistence and susceptibility of poultry viruses to chemicals and characterization of the immune responses and pathology generated in chickens NIH Guideline: N/A APPROVED (10-0-0) at BSL2
- R R2110 (Replacing 0084-03)
 Reviewer: vx

 Diarrhea, gut dysbiosis and potential solutions in nursing animals

 NIH Guideline: N/A

 APPROVED (9-0-1, Maga abstained) at BSL2

BBP only

 N R2099
 Schelegle, Edward
 Reviewer: az

 Soluble antioxidant modulation: Test of a computational model of ozone-induced
 response.

 NIH Guideline: N/A
 APPROVED (10-0-0) at BSL2

<u>BSL1</u>

R R2059 (Replacing 0024-02) Ullman, Diane Reviewer: jk Advancing Innovative Technologies and Integrated Strategies for sustainable Management of Thrips-Transmitted Tospoviruses NIH Guideline: IIIE2a APPROVED (10-0-0) at BSL1

- N R2097Williamson, ValerieReviewer: vxGenomic editing tools for root-knot nematodesNIH Guideline: IIID4a, IIIE, IIIF8, App C-IIAPPROVED (10-0-0) at BSL1
- N **R2102** Berry, Alison Reviewer: az <u>Transformation and Genetic Manipulation of genus Frankia: Beneficial Nitrogen-</u> <u>Fixing Endosymbionts of Plant Roots</u> NIH Guideline: IIIE <u>APPROVED (10-0-0) at BSL1</u>

B. Amendments:

BIO amendment:

BSL2

Suslow, Trevor

R1605 Study of the microbiological safety of fresh produce NIH Guideline: N/A

APPROVED (10-0-0) at BSL2

Amendment on SmartSite (old form):

BSL2 0801

Reviewer: jb

Transcription responses of mouse olfactory sensory neurons to attenuated vescicular stomatitis virus NIH Guideline: IIID1b APPROVED (10-0-0) at BSL2

C. Storage only :

R **R2065** (Replacing 0741-02) Tsolis, Renee Reviewer: cs Storage only: RG1 and RG2 organisms NIH Guideline: N/A **APPROVED** (10-0-0)

D. Terminated BUAs:

1018B Morse, Lawrence Reviewer: mm Gene Expression Patterns in Age-related Macular Degeneration (AMD) Exp date: 10/15/2015

V. **Discussion Items:**

1. Vivarium Hazard Safety Sheet to be approved by IBC and IACUC, attached to BUAs, and used by animal caretakers – Zweifel

The IBC was informed that the Animal Facilities will be updating the Hazard Identification forms for the animal care staff in vivaria. These forms will be completed by the Biosafety Office and attached to the BUA. requested additional input by the IBC, therefore further discussion of the forms was deferred until the November IBC meeting.

VI. Information Items:

 Potential Risks and Benefits of Gain of Function Research Second Symposium – Barruel

The IBC was informed that there will be a second symposium on the Potential Risks and Benefits of Gain of Function Research in March 2016.

- 2. J1 BSL3 facility water intrusion Barruel The IBC was informed that there was a water intrusion in the J1 BSL3 facility (not currently in use) and that it may take six months or longer to get the facility back to operational status.
- 3. NIH OBA reports submitted for recombinant work by laboratories of Alison Berry and Martin Privalsky – Baugh and Zweifel

- a. The IBC was verbally presented the circumstances that prompted the Privalsky (PI) NIH OBA report for failure to obtain IBC approval prior to the start of research that falls under Section III-D of the NIH guidelines. The IBC required both the PI and graduate student complete all pertinent Biosafety training modules, and approved the Privalsky's BUA application that covers this recombinant work.
- b. The IBC was verbally informed of the circumstances that prompted the Berry (PI) NIH OBA report for failure to obtain IBC approval simultaneous to the start of research that falls under Section III-E of the NIH guidelines. The IBC reviewed and approved the Berry's BUA application that covers this recombinant work.
- VII. IBC Training: None
- VIII. BSL3 Laboratory Information: None
- IX. Notifications: None
- X. Subcommittee Topics: None

Adjournment: The meeting was adjourned at 5:25 pm.

Institutional Biosafety Committee, UC Davis

Office of Environmental Health and Safety

Minutes November 16, 2015 (2:58 – 5:20 PM) Hoagland Hall, Rm 130

In attendance: Angela Gelli

Angela Gelli	Voting Member, Chair, Pharmacology
Gerhard Bauer	Voting Member, Vice-Chair, IM Div. of Hematology/Oncology
Philip Barruel	Voting Member, Biosafety Officer, Environmental Health and Safety
Roger Belcourt	Voting Ex-Officio Member, Director, Occupational Health Services
Sue Bodine	Voting Member, Neurobiology, Physiology, and Behavior;
	Representative, VA Northern California Health Care System
William Buhles	Voting Member, Public Member
Nicole Corley	Voting Member, Campus Veterinary Services
Bruce Draper	Voting Member, Molecular & Cellular Biology
Diane Hoffmann	Voting Member, School of Medicine Sponsored Programs
Fred Jacobsen	Voting Member, Public Member
Johan Leveau	Voting Member, Plant Pathology
Victor Lukas	Voting Ex-Officio Member, Attending Veterinarian
Elizabeth Maga	Voting Member, Animal Science
Lyle Najita	Voting Member, Public Member
Renee Tsolis	Voting Member, Medical Microbiology & Immunology

IBC support staff in attendance:

James Baugh	Associate Biosafety Officer, Environmental Health and Safety
Chelsea Schiano	High Containment Facility Officer, Environmental Health and Safety
Vivian Xian	Associate Biosafety Officer, Environmental Health and Safety
Adrienne Zweifel	Associate Biosafety Officer, Environmental Health and Safety

Excused:

Thomas Ferguson	Non-Voting Ex-Officio Member, Medical Director, SHCS
Betty Ma	Voting Member, (Alternate) Campus Veterinarian
Ioannis Stergiopoulos	Voting Member (alternate), Plant Pathology
Jill Blackwelder-Parker	Non-Voting Ex-Officio Member, Associate Vice Chancellor,
	Safety Services
Neil Speth	Non-Voting Ex-Officio Member, UCDMC Employee Health Services

Guests:

Elizabeth Reay	California Animal Health and Food Safety
Nicole Drazenovich	Center for Comparative Medicine
Greg Hodge	CNPRC

Call to Order: A quorum was established with 11 voting members present and the Institutional Biosafety Committee (IBC) was called to order at 2:58 pm by Angela Gelli, IBC Chair.

- I. Review of past IBC meeting minutes: October 19, 2015 APPROVED (7-0-4, Bodine, Gelli, Hoffman and Najita abstained)
- II. Announcements: None
- III. Old Business:

Belcourt, Leveau, and Maga arrived

A. BUA reviewed at the October 19, 2015 IBC meeting that was later confirmed to have a safety equipment deviation from IBC expectation

BSL2

R R2084 (Replacing 1022B) Retinoic acid, its receptors, and the liver NIH Guidelines: IIID3a, IIID4a CONDITIONALLY APPROVED (14-0-0) at BSL2 The IBC requested that the following comment(s) be addressed before final approval is granted:

- They are not doing much in the BSC, they only have face shields
- Restrict clinical lab and research to trained personnel
- Conditional approval due to changes needed with splatter containment

B. BUAs tabled at the October 19, 2015 IBC meeting:

<u>BSL1</u>

 R R2072 (was R2054 Replacing 0894)
 Davis, Richard
 Reviewer: jb

 Plant pathogen etiology, transmission and resistance
 NIH Guidelines: N/A

 APPROVED (14-0-0) at BSL1

• All provisional questions addressed

IV. New Business:

A. New and renewal BUAs for review:

Guest Elizabeth Reay

Reviewer: cs

NIH Guidelines: N/A APPROVED (14-0-0) at BSL3

- Elizabeth Reay was able to answer the following questions during the IBC meeting:
 - Since the researchers are comparing the viability of different strains of Influenza viruses, HPAI and LPAI should have the same "hazardous procedures" options selected.
 - Since the egg will be used to culture HPAI, it should be listed as BSL3, not BSL1.
 - The inactivation of liquid waste should state that it will be "inactivated with bleach (10% final concentration)." The current description makes it sound like they're starting with 10% bleach. The final concentration of the liquid waste should be 10% bleach.
 - The BUA states that the researchers will work in the BSL3 and personnel will wear N95s, but will they use a BSC? If so, what will be done in a BSC?
 - The medical waste management plan needs to be added to the BUA.
 - The researchers should outline the guarantine requirements in the BUA (e.g. no contact with susceptible avian species for 5 days after last working with the virus).
 - Describe containment during centrifugation.
 - Poultry bedding can be dusty. Can the researchers describe how it will be contained after spiking?
- For the footbath experiments, what volumes of footbath will they work with? If it • will be simulating a facility footbath, how will they ensure that the liquid will not spill? The Biosafety Office pre-reviewer will follow-up on footbath volume.
- An IBC member inquired about the disposal and document location.

BSL2

N R1876

Combined cell and gene therapy using MSCs expressing basic fibroblast factor to accelerate fracture repair NIH Guidelines: IIID1b, IIID4a APPROVED (14-0-0) at BSL2

Reviewer: jb

- Add report exposure to Occupational Health
- PI re-training is needed (it is over 3 years old)

R **R2082** (Replacing 0794)

Reviewer: vx

Breeding colonies of transgenic mice and related RNAi projects NIH Guidelines: IIID3a, IIID4a, IIIE, IIIF8, App C-II, App C-III, App C-VIII APPROVED (14-0-0) at BSL2

- Risk Assessment of lentiviral vector, add risks of insertion mutagenesis in case • of auto-inoculation
- "Transfection" should be changed to "transduction" •

Reviewer: az

R **R2086** (Replacing 0893)

Genetic Determinants of Musculoskeletal Development,

Adaptation, and Regeneration

NIH Guidelines: IIID3

CONDITIONALLY APPROVED (14-0-0) at BSL2

The IBC requested that the following comment(s) be addressed before final approval is granted:

- Oncogenes tumor growth factor beta activator is incorrectly marked as "nonhazardous"
- BUA should clarify who is doing the animal work
- New IACUC protocol numbers needed
- Clarification of source of animal tissues at Vet School (is it from necropsy or clinically-ill animals?)
- Training Biosafety Office pre-reviewer will follow-up

BBP only

N R1619 Medici, Valentina Reviewer: jb <u>Procedures for DNA extraction and metabolite profiling of human liver and plasma</u> NIH Guidelines: N/A <u>APPROVED (14-0-0) at BSL2</u>

- The researchers will not use a BSC
- R **R2066** (Replacing 1020B) Rogawski, Michael Reviewer: vx <u>Clinical Trial of Allopregnanolone for Treatment of Traumatic Brain Injury</u> NIH Guidelines: N/A <u>APPROVED (14-0-0) at BSL2</u>
 - IRB approval was obtained, but need to provide the IRB approval number.
- R **R2068** (Replacing 0617) Allen, Lindsay Reviewer: vx <u>Micronutrient metabolism and status in populations at risk of deficiency</u> NIH Guidelines: N/A *APPROVED (14-0-0) at BSL2*
 - This BUA covers work with human blood samples from a population with up to 20% HIV positive rate. The BUA was therefore reviewed by the full IBC, other than being reviewed only by the Biosafety Office.
- N **R2078** Raybould, Helen Reviewer: az <u>Investigation of Milk Oligosaccharides and Beneficial Effects on Primary Human</u> <u>Infant Intestinal Cells</u> NIH Guidelines: N/A <u>APPROVED (14-0-0) at BSL2</u>
- N R2132 Wessells, Kimberly Reviewer: vx <u>Micronutrient absorption, metabolism and status in populations at risk of deficiency</u> NIH Guidelines: N/A <u>APPROVED (14-0-0) at BSL2</u>

• This BUA covers work with human blood samples from a population with up to 15% HIV positive rate. The BUA was therefore reviewed by the full IBC, other than being reviewed only by the Biosafety Office.

<u>BSL1</u>

 R R2071 (Replacing 1019)
 Siegel, Justin
 Reviewer: vx

 Computationally designed enzymes produced in E. coli
 NIH Guidelines: IIIE, IIIF8, App C-II

 APPROVED (14-0-0) at BSL1

R **R2085** (Replacing 0719) Harmer, Stacey Reviewer: az <u>Molecular Mechanisms of Circadian Regulation in Arabidopsis</u> NIH Guidelines: IIIE2 <u>APPROVED (14-0-0) at BSL1</u>

• Training is missing

R **R2108** (Replacing 1027) Zwieniecki, Maciej Reviewer: az <u>Physiological Role of Aquaporins in Response to Drought in Transgenic Poplars</u> NIH Guidelines: IIIE2 <u>APPROVED (14-0-0) at BSL1</u>

- Poplars do not have gametes
- The PI is the only authorized person
- Remove "lab coat" at greenhouse, but clarify that eye protection is needed when using bleach

R **R2135** (Replacing 0615)

Research involving feline coronaviruses, FIPV and FECV NIH Guidelines: N/A APPROVED (14-0-0) at BSL1 Reviewer: jb

- A Medical Waste Management Plan is needed
- Indicate that virus will be added to "vertebrate"
- No access to other cat facility after working with virus

B. Amendments:

BIO amendment:

BSL2

R1653 Hovey, Russell Analysis of hormonally responsive promoter sequence

Reviewer: vx

Analysis of hormonally responsive promoter sequences NIH Guidelines: IIID3a, IIID4b

APPROVED (14-0-0) at BSL1

The PI is the only one doing the work – they've already made post-exposure prophylaxis arrangements with Dr. Belcourt (Occupational Health physician).

R1682

Mechanisms and Regulation of Homologous Recombination

NIH Guidelines: IIID3a

APPROVED (14-0-0) at BSL1

R1968

Aquatic Animal Health Research NIH Guidelines: IIID1a

CONDITIONALLY APPROVED (14-0-0) at BSL1

The IBC requested that the following comment(s) be addressed before final approval is granted:

Heyer, Wolf

- Risk Assessment section needs to clarify:
 - Confirm whether the Salmonella strain is attenuated.
- Biosafety Office to review SOP for facility
- Clarify the size and volume of the aquaponics system for spill clean up

<u>NHP only</u>

R1688 Neural-immune and Brain-gut interactions NIH Guidelines: N/A APPROVED (14-0-0) at BSL2

- rDNA training
- Define "addressed accordingly", in case of exposure
- Use a BSC for micro-dissection, if not use face shield and surgical mask

Add storage of agents only

R1893	Pesavento, Patricia	Reviewer: az
Viral pathogenesis of newly	v discovered veterinary viruses	
NIH Guidelines: N/A		
APPROVED (14-0-0)		

Amendment on SmartSite (old form):

BSL2

 1050
 Reviewer: jb

 Therapeutic and prophylactic interventions against agents of chronic infection including HIV and HCV
 NIH Guidelines: IIIE

 APPROVED (14-0-0) at BSL2
 NIH Guidelines: IIIE

- Clarify what rhCMV will be obtained from Dr. Barry
- Risk Assessment needs sentence about what to do if someone is exposed

BSL1

0924-01BLein, PamelaReviewer: vxCellular and molecular mechanisms of neurotoxicityNIH Guidelines: IIIE1APPROVED (14-0-0) at BSL1

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Reviewer: vx

Reviewer: jb

Reviewer: jb

BBP-only BUAs will be designated to the Biosafety Office for review. When the meeting agenda is sent to the IBC, the members will have until 5pm on Thursday afternoon to send their objections to the designated review method and request that certain BUAs be reviewed by the full committee. If there are no objections to designated review method, then the Biosafety Office can perform the review and approve BUAs, as appropriate.

and used by animal caretakers – Zweifel

2. Vivarium Hazard Safety Sheet to be approved by IBC and IACUC, attached to BUAs,

Jacobsen left, Tsolis joined meeting

- non-human primate tissue, cells, and blood should be required to have a BUA (because they don't already have a safety program). • The IBC deferred further discussion on this topic to the December IBC meeting.
- Pathogens Standard. The CNPRC already has an internal safety program and asking for a BUA
- require BUAs from CNPRC investigators for work with NHP source materials. Their arguments are outlined below.

The Safety Officers from CCM and the CNPRC requested that the IBC not

• The NHP tissue, cells, and blood are not covered by the Bloodborne

o CNPRC PIs should be exempt, but all other UC Davis PIs who work with

(including cells)? – Barruel Guests: Niki Drazenovich and Greg Hodge arrived

1. BUAs required for CNPRC investigators who use NHP or NHP source materials

is unnecessarv.

Postponed to December meeting

3. Changes to IBC review assignments – Barruel

NIH Guidelines: IIID, IIIE Conditional Approval Date: 10/19/2015

Draper left meeting

D. Terminated BUAs:

Discussion Items:

0718

•

V.

R **R2058** (Replacing 0225)

Exp date: 07/05/2016

Citrus Health and Management

C. Conditional BUAs reviewed by ABSO, Final Approval by BSO:

Ecological genetics and population health of wildlife

Dandekar, Abhaya

Reviewer: az

Reviewer: nld

- Plant- or animal-only pathogen BUAs will be designated to certain IBC members for review. When the meeting agenda is sent to the IBC, the members will have until 5pm on Thursday afternoon to send their objections to the designated review method and request that certain BUAs be reviewed by the full committee. If there are no objections to designated review method, then the IBC members assigned as reviewers can perform the review and approve BUAs, as appropriate.
- Report to NIH OBA for possible exposure to recombinant virus in Dr. Wexler's laboratory – Barruel <u>APPROVED (12-0-1)</u>
- 5. IBC future meeting days Barruel APPROVED (12-0-1)
 - Biosafety Office request to move the IBC meeting days from the third Mondays of the month to the fourth Mondays of the month. The extra time will give the Biosafety Office more time to pre-review submissions.
- 6. CNPRC and Vet Med PCR Lab diagnosis of tularensis infection of an non-human primate Barruel

A deceased non-human primate was found, after necropsy, to have had a naturallyoccurring tularensis infection. The CNPRC submitted a Select Agent Form 3 and the Vet Med PCR Lab submitted a Select Agent Form 4 to the Federal Select Agent Program.

7. The IBC Chair – Barruel

Dr. Angela Gelli, will be on sabbatical next year from January to June. The IBC Vice Chair (Gerhard Bauer) will be the interim Chair, but the IBC will need a Vice Chair. The IBC will vote during the December meeting regarding who will be the interim IBC Vice Chair.

VI. Information Items: None

VII. IBC Training: None

VIII. BSL3 Laboratory Information:

J1 BSL3 remediation is underway – Barruel
 The extent of the water damage has been determined and the remediation work has
 already begun. Restoration of the facility will start soon after remediation.
 Consultants are helping find the root cause of the water leak so that it can be
 prevented from happening again. Section of facility damaged was not in use.

IX. Notifications:

 USDA Notice of Noncompliance to Dr. Powell – Barruel Dr. Anne Powell received a notice of non-compliance from the USDA for late submission of a planting report.

X. Subcommittee Topics: None

Adjournment: The meeting was adjourned at 5:20 pm.

Institutional Biosafety Committee, UC Davis

Office of Environmental Health and Safety

Minutes December 18, 2015 (10:00 AM – 11:55 AM) Hoagland Hall, Rm 130

In attendance: Angela Gelli

Gerhard Bauer

William Buhles Nicole Corley

Bruce Draper Fred Jacobsen

Johan Leveau

Elizabeth Maga Lyle Najita

Victor Lukas

Renee Tsolis

Philip Barruel Roger Belcourt

Sue Bodine

Voting Member, Chair, Pharmacology Voting Member, Vice-Chair, IM Div. of Hematology/Oncology Voting Member, Biosafety Officer, Environmental Health and Safety Voting *Ex-Officio* Member, Director, Occupational Health Services Voting Member, Neurobiology, Physiology, and Behavior; Representative, VA Northern California Health Care System Voting Member, Public Member Voting Member, Campus Veterinary Services Voting Member, Molecular & Cellular Biology Voting Member, Public Member Voting Member, Plant Pathology Voting *Ex-Officio* Member, Attending Veterinarian Voting Member, Animal Science Voting Member, Public Member Voting Member, Public Member

IBC support staff in attendance:

James BaughAssociate Biosafety Officer, Environmental Health and SafetyChelsea SchianoHigh Containment Facility Officer, Environmental Health and SafetyVivian XianAssociate Biosafety Officer, Environmental Health and SafetyAdrienne ZweifelAssociate Biosafety Officer, Environmental Health and Safety

Excused:

Laurie Brignolo Voting Member (Alternate), Campus Veterinary Services Thomas Ferguson Non-Voting *Ex-Officio* Member, Medical Director, SHCS Diane Hoffman Voting Member, School of Medicine Sponsored Programs Voting Member, Public Member, Retired UCD Fred Jacobsen Voting Member, (Alternate), Plant Pathology Johan Leveau Voting Member, (Alternate) Campus Veterinarian Betty Ma Elizabeth Maga Voting Member, Animal Science Ioannis Stergiopoulos Voting Member (alternate), Plant Pathology Jill Blackwelder-Parker Non-Voting Ex-Officio Member, Associate Vice Chancellor, Safetv Services Non-Voting Ex-Officio Member, UCDMC Employee Health Services Neil Speth Renee Tsolis Voting Member, Medical Microbiology & Immunology

Guests:

Pramod Pandey Brian Trainor

Vet Med: Population Health Psychology

Call to Order: A quorum was established with 8 voting members present and the Institutional Biosafety Committee (IBC) was called to order at 10:00 am by Angela Gelli, IBC Chair.

Belcourt and Buhles arrived

- L **Review of past IBC meeting minutes:** November 16, 2015 **APPROVED** (10-0-0)
- П. Announcements: None
- III. Old Business: None
- IV. New Business:
 - A. New and renewal BUAs for review: BSL2

R	R2113 (Replacing 0712)
	Immune Response to Intracellular Pathogens in Horses
	NIH Guidelines: N/A
A	PPROVED (10-0-0) at BSL2

Reviewer: jb

- Clarify with PI if all bacteria are used with cells. Only Rhodococcus was checked and others were marked as "N/A."
- Risk assessment section didn't mention all of the organisms. Include discussion of Corynebacterium pseudotuberculosis.
- Inverted microscope work is outside of a BSC, but they're not generating aerosols.
- *In-vitro* work only in a BSC.

R **R2114** (Replacing 0899)

Reviewer: az Beneficial effects of lactic acid bacteria and commensals associated with plants, foods and mammalian guts

NIH Guidelines: IIIE1

APPROVED (10-0-0) at BSL2

- Remove autoclave parameters (not needed in the BUA).
- Adding face shield to protect mouth and nose from splashes.
- Add a discussion of the experimental procedures in the risk assessment. Include adults in discussion of symptoms of infection with organisms.

R **R2136** (Replacing 0799)

Reviewer: jb Mechanism of the p53 family proteins-dependent tumor suppression NIH Guidelines: IIID3b

APPROVED (10-0-0) at BSL2

• The transgenic mice have already been created under their previous BUA.

- ABSO can add list all the animals that have been generated and add summary statement of this research to experimental procedures.
- ABSO will confirm that mice will solely be used for extraction of MEF cells, and no further genetic modification of mice will occur.

N **R2148** Lewis, Jamal Reviewer: jb <u>A commensal bacteria-derived adjuvant for modulation of dendritic cell phenotype</u> NIH Guidelines: N/A

APPROVED (10-0-0) at BSL2

- Phenol will be used to lyse anaerobic bacteria (out of a BSC).
- Remove statement about laundering lab coats every 3 months instead change to "will launder when soiled."
- Edit the "Exposure Control Plan" to be specific for Bacteroides.
- Add to "risk assessment" that if there is an exposure they will consult with Occupational Health.

BBP only:

ALL ALREADY APPROVED BY BSO

 R R2095 (Replacing 1025B)
 Smilowitz, Jennifer
 Reviewer: vx

 Foods for Health Institute – Bioactive Research
 Reviewer: vx

NIH Guidelines: N/A

- Clarify what is meant by "cautions" in the text "cautions will be used to prevent personnel exposure."
- Several personnel need updated training dates.

R **R2107** (Replacing 1029B)

Reviewer: az

Targeting the PI3K/Akt/mTOR signaling system in inflammatory diseases NIH Guidelines: N/A

- Clarify how the tissue samples from psoriasis patients will be administered to the mice.
- Include mention of training of personnel for their lab-specific bloodborne pathogens exposure control plan.
- In the "Authorized Personnel" section, the ATP question should not be checked as "yes."
- R **R2112** (Replacing 1030B) Kelley, Darshan Reviewer: vx <u>Functional characterization of bioactive phytonutrients and dietary fatty acids in liver</u> <u>cells</u>

NIH Guidelines: N/A

- Clarify what "hazardous procedures" will be involved when working with the liver cells.
- Include mention of training of personnel in lab-specific Bloodborne Pathogens Exposure Control Plan.
- Include mention of offer to personnel with the hepatitis B vaccine series.

N R 2159	Taha, Ameer	Reviewer: az
Probing the lipidome in hum	an blood and breast milk	

NIH Guidelines: N/A

- Attach the lab-specific medical waste management plan and bloodborne pathogens exposure control plan.
- Update the training information.

BSL1 N R2156 Reviewer: vx Stem cell function in Hydra NIH Guidelines: IIID4a, IIIF8, App C-II APPROVED (10-0-0) at BSL1 N R2160 Sciammas, Roger Reviewer: az

Role of IRF4 in lymphocyte cell fate decisions

NIH Guidelines: IIID1, IIIE1 APPROVED (10-0-0) at BSL2

- Attenuated strains of Listeria will be used.
- Biosafety cabinets will not be used.
- Under the "risk assessment" provide more detail about what a "slight reaction" may be.

B. Amendments:

BIO amendment:

ABSL3

R1804

Reviewer: cs Alphavirus Arbovirus surveillance, vector competence and host pathogenesis NIH Guidelines: N/A

APPROVED (10-0-0) at BSL2

- VM3B BSL3 was commissioned in 2013, but the facility does not include any ABSL3 rooms.
- The IACUC has approved use of this facility for animal housing.
- There are still two biosafety cabinets in the room. The facility also has a passthru autoclave.
- The research investigator worked in the J1 BSL3 facility, but has to temporarily relocate because of the water damage.
- Make sure that the SOPs will include a discussion of transporting and cleaning of cages.

BSL2

R1606

Reviewer: az Cultivation, characterization and immunopathogenesis of protozoal parasites affecting animals and humans NIH Guidelines: N/A APPROVED (10-0-0) at BSL2

Guest Brian Trainor

R1650

Effects of stress on brain and behavior

NIH Guidelines: N/A

APPROVED (10-0-0) at BSL2

Brian Trainor was able to answer the following questions during the IBC meeting:

- Very low chance of shedding the HSV vector due to the volumes used, vector construct, and the procedures employed.
- TRACS' typical practice regarding bedding from animals exposed to infectious or rDNA materials.

The principal investigator will treat the bedding with 10% bleach prior to disposal.

R1712

Calloway, Cassandra Reviewer: vx

Human Forensic Biology Laboratory NIH Guidelines: N/A

APPROVED (10-0-0) at BSL2

- Include mention of personnel training in lab-specific Bloodborne Pathogens Exposure Control Plan.
- Include mention of offer to personnel with hepatitis B vaccine series.
- Provide information for the added vaginal secretion samples
 - Provide the source for the samples.
 - Are the samples covered under an IRB protocol? If yes, list the IRB approval number.
 - Clarify if the samples are used for the forensic class.

R1723

Barlow, Jacqueline Re

Reviewer: vx

DNA replication and repair in B and T lymphocytes NIH Guidelines: IIID3a

APPROVED (10-0-0) at BSL2

• Include discussion of insertional mutagenesis in case of auto-inoculation.

Amendment on SmartSite (old form):

<u>BSL2</u>

1065Pandey, PramodReviewer: jbPathogen Inactivation in Food Waste, Green Waste, and Dead PoultryNIH Guidelines: N/ATABLED (10.0.0)

TABLED (10-0-0)

The IBC requested PI to submit a revised BUA to address the comments listed below:

- Clarify the Risk Assessment for the work with adding 1 liter of a culture of pathogen into a 200 liter vessel.
 - Elaborate on your plan for containment of possible spills.
 - o Consider substituting a non-pathogen as the inoculum
 - Define the highest infective dose and waste volumes.
 - Write SOP's (addressing machine failure, spill cleanup procedure, transport of materials, waste handling, emergency response, PPE)
 - Provide a complete risk assessment for the operation.

C. Storage only: None

D. Conditional BUAs reviewed by ABSO, Final Approval by BSO:

R **R2084** (Replacing 1022B) Reviewer: jb Retinoic acid, its receptors, and the liver NIH Guidelines: IIID3a, IIID4a Conditional Approval Date: 11/16/2015s R 1968 Reviewer: jb Aquatic Animal Health Research NIH Guidelines: IIID1a Conditional Approval Date: 11/16/2015 E. Terminated BUAs: 0718 Reviewer: nld Ecological genetics and population health of wildlife Exp date: 07/05/2016

V. **Discussion Items:**

- 1. Vivarium Hazard Safety Sheet to be approved by IBC and IACUC, attached to BUAs, and used by animal caretakers – Zweifel
 - PI will write up the safety sheet and then send over to the Biosafety team for review, edits, and approval.
 - The VHSS will create a catalog that researchers can sue for biohazardous agents, for chemicals
 - Adrienne will add items here and keep with the BUA
 - It will also stay with the IACUC protocol
 - This will make it consistent campus-wide

Formal vote was not taken but Vivarium Hazard Safety Sheet was presented and endorsed by the IBC.

- 2. BUAs required for CNPRC investigators who use NHP source materials (including cells)? – Barruel
 - Postponed to January 2016 meeting BSO will meet with legal counsel and CNPRC director before next meeting so that IBC can later make a decision.
- 3. IBC Vice Chair for the period from January 2016 to June 2016 Barruel Gerhard Bauer will serve as Chair and Nicole Corley as Vice-Chair **APPROVED (9-0-1, Bauer and Corley abstained in turn)**
- 4. 2016 CDPH medical waste inspection Barruel
 - CDPH will inspect the campus medical waste management program on January 28, 2016.

VI. Information Items: None

VII. IBC Training: None

VIII. BSL3 Laboratory Information: None

IX. Notifications: None

X. Subcommittee Topics: None

Adjournment: The meeting was adjourned at 11:55 am.