

Boston University Institutional Biosafety Committee (IBC) August 18, 2020 Meeting Minutes Location: Zoom and/or by phone Start time: 12:00 PM End time: 2:18 PM

<u>Members Present:</u> C. Abraham, B. Slack, E. Muhlberger, R. Davey, X. Brown, R. Morales, T. Winters, S. Kurnick (joined 12:14 PM), J. Keeney, R. Timmerman, V. Britton (joined 12:09 PM), J. Barton <u>Guests Present:</u> P. Urick, F. Ennever, A. Ahmad, J. Davis, C. Bennett <u>Staff Present:</u> J. Hutchinson, S. Ghosh, C. McGoff

- I. New Chair: Members were informed that Carmela Abraham has been appointed as Chair of the IBC effective September 1st and will be leading today's meeting.
- Review of July 21, 2020 IBC Meeting Minutes No comments or questions were voiced.
 Motion: Approve For: 10; Against: 0; Abstain: 0; Absent: 2

III. New Business

A. LAI Subcommittee Recommendation: Members were informed of a recommendation by the subcommittee not to include *Prevotella intermedia*, *Peptostreptococcus micros*, *Streptococcus intermedia* or *Fusobacterium nucleatum* (new agents to BU) on the list of Biological Agents with Potential to Cause Laboratory Acquired Infection. It was noted that these are oral bacteria that are easily treated with penicillin. No questions or comments were voiced.

Motion: Not to include these four (4) agents on the list of biological agents with potential to cause LAI For: 10; Against: 0; Abstain: 0; Absent: 2

B. Environmental Health and Safety (EHS) & Research Occupational Health Program (ROHP) Report: No incidents to report. It was noted that Pat Urick is retiring, this will be her last meeting and she was thanked for the support she has provided over the years.

IV. Protocol Review

1. rDNA/Bhz – Three Year Renewal

BUA	(PI)	Title		BSL	ABSL	Campus
1949		Point of Care Tests for Cervical Cancer 2		2	N/A	CRC
,	Reviewer: Elke M	uhlberger	Secondary Reviewer: Jim Keeney			

Applicable NIH Guidelines: Section III-D-2-a

Meeting comments: The PI is developing a diagnostic assay for Human Papillomavirus (HPV); pap smear samples obtained from BIDMC and BMC are used for assay development. DNA is extracted from these samples which are then used in specialized assays to ultimately design methods to quickly identify HPV infection. It was noted that the transport of samples is described in the PPE section and that all BSC's have recent certification. EHS staff indicated that they will follow-up with the PI regarding waste collection (per the comment below).

- Room : clarify if a BSL2+ lab is required for this work or if BSL2+ is required for other work performed in this room. If a BSL2+ lab is required for this work, clarify which pathogens are handled (in) and how personnel are protected.
- Clarify why decontaminated bacterial waste is transferred to the waste satellite area instead of being directly poured down the sink, consulting with EHS staff regarding appropriateness.
- Describe in the Research Project Description the work that requires a homogenizer/blender (this is checked in the PPE section).

- It is mentioned in the liquid waste section that blood will be disposed of. Use of blood is not described in the Research Project Description. Describe experiments with blood or remove blood from the liquid waste section.
- Remove *E. coli K12* from the Hazardous Biological Agents list.

Site Assessment: No findings; BSC's are certified and training and ROHP clearance are current.

Motion: Conditional Approval (Administrative Review)	For: 11	Recuse: 0	Against: 0	Abstain: 0	Absent: 1
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2. rDNA/Bhz – Three Year Renewal

BUA	(PI)	Title			BSL	ABSL	Campus
1399		Control of embryonic develo	opment by	CK2: CK2 as a	2	2	BUMC
		core Wnt/beta-catenin com	ponent				
		Effect of CK2 Dysregulation	on Heart N	orphogenesis	s		
		Cardiac proliferation: Role o	f Protein K	nase CK2			
		Characterization of CSNK2A	1 variants i	n Okur-Chung	5		
		Neurodevelopmental Syndr	ome				
Primary	Reviewer: Carme	la Abraham S	Secondary I	Reviewer: Sus	anna Kurnic	k	
Applicat	ole NIH Guidelines	: Section III-D-1-a, III-D-2-a, A	ppendix B-	I-D, G-II-B, Se	ection III-D-4	, III-E-1	
Meeting	g comments: It wa	s clarified that in section VI. t	hat Xuemei	Zhong is the	correct spel	ling of one of	the
personn	el listed.						
٠	Federal funding s	hould be checked.					
•	Indicate if there is	s RPO approval for P32.					
•	Update the BSC c	ertification date.					
•	VIII.7: should be 1	0% bleach final concentration	າ.				
•	Clarify why the pr	otocol is marked ABSL2 in Sec	tion IV but	ABSL1+ in Se	ction IX; rec	oncile as app	ropriate.
•	Indicate from whi	ch BU researcher cell lines are	e obtained.				
•	Replication comp	etence: indicate if < or > than	2/3.				
•	Correct typograph	nical errors throughout.					
•	Update requested	d IACUC information.					
	• •	to complete BSL1/BSL2 train	ng.				
Motion:	Conditional Appr	oval (Administrative Review)	For: 12	Recuse: 0	Against: 0	Abstain: 0	Absent: 0

3. rDNA/Bhz – Three Year Renewal

BUA (PI)	Title	Title		ABSL	Campus
1046	Kidney and Urinary	nesis of Vesicoureteral Reflux, Development and Disease, ZBE2 signaling pathway, novel opment	2	1	BUMC
Primary Reviewer: Rob Davey Secondary Reviewer: Susanna Kurnick			÷		

Applicable NIH Guidelines: Sections III-D-1-a, III-D-2-a, III-D-4-a, Appendix G-II-B

Meeting comments: The lab studies reflux nephropathy, a type of chronic kidney disease. Deficiency in the cell signaling proteins, SLIT2/ROBO2 and ZEB2 may play roles in the disease. The work alters expression of each protein or mutates them and looks at impact on function and development of the kidney and nephrons in mice. No oncogenes are used. The PI is constructing plasmids encoding each gene with epitope tags, such as HA or His for the purposes of doing immunohistology or for detection of proteins that bind. Additionally, transgenic mice that lack expression of the SLIT2/ROBO2 gene will be used, transgenic mouse embryos will also be used. Yeast 2 hybrid assays will be done to detect binding partners for ROBO2 and related proteins such as Nck1 and SRGAP1. It was noted that: personnel are experienced; the project is non-DURC; human cell lines are used; and that sharps disposal and PPE seem appropriate.

- 70% ethanol is not an appropriate sterilant for cleaning surgical instruments, provide another method such as autoclaving.
- For use of BrdU and Tamoxifen, clarify transport procedures during shedding.

Site Assessment: No findings.					
Motion: Conditional Approval (Administrative Review)	For: 12	Recuse: 0	Against: 0	Abstain: 0	Absent: 0

4. rDNA/Bhz – Three Year Renewal

BUA	(PI)	Title		BSL	ABSL	Campus		
1409		Replication strate	gies and host response	2	N/A	BUMC		
		mechanisms of R	NA viruses with a focus on					
		filoviruses						
Primary	Reviewer: Ba	rbara Slack	Secondary Reviewer:	Bob Timmerman				
Applica	ble NIH Guide	lines: Sections III-D-1-a,	III-D-2-a, III-D-3, III-E-1, III-F-8,	App. B-II-D, A	pp. G-II-B			
Meeting	g comments: 1	Γhe project's goal is to ι	inderstand mechanisms of vira	l replication, in	nfection, vir	ulence and		
pathoge	enicity. Work i	nvolves use of minigen	omes, replicons, genes, gene fr	agments and v	/irus-like pa	rticles derived		
from file	oviruses, heni	paviruses, vesicular sto	matitis virus, (VSV) and SARS-Co	oV-2. Replicati	on incompe	etent lentiviral		
vectors,	, and a pseudo	otyped attenuated HIV	vector are used in some experin	ments to const	ruct virus-li	ke reagents. All		
constru	cts and partic	les generated will be re	plication incompetent and/or in	ncapable of ca	using infect	ion. A variety of		
primary	cells and cult	ured cell lines from hur	nans, animals, non-human prin	nates, and blo	od and tissu	e from bats will		
be used	l to express ar	d propagate the variou	s constructs and evaluate imm	une response.	VSV will be	used as a		
surroga	te virus to est	ablish conditions for ina	activation of pathogens by gam	ma irradiation	. All proced	ures are carried		
out usir	ng BSL2 precau	utions and procedures.	It was noted that some of the li	isted training v	will expire so	oon, that the bo>		
for ame	endments show	uld be blank, and that ir	Section IX. N/A should be che	cked for ABSL.	Members c	liscussed that the		
			ressed at the time of next ame					
regularl	y tested for p	athogens such as rabies						
-	• •	rainings are current; an						
The PI v	vas not preser	nt for the vote.						

The FF Was not present for the vote.					
Motion: Approve	For: 11	Recuse: 1	Against: 0	Abstain: 0	Absent: 0

5. rDNA/Bhz – Three Year Renewal

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BUA	(PI)	Title		BSL	ABSL	Campus
1375		Apolipoprotein A-I and HDL; Structure, Formation		2	N/A	BUMC
		and Function	and Function			
Primary Reviewer: Carmela Abraham Secondary Reviewer: Jir				Keeney		
Applicab	la NIH Guidalinas	·· Sections III-D-1-2 III-D-2-2	· App G_II_B			

Applicable NIH Guidelines: Sections III-D-1-a, III-D-2-a; App. G-II-B

Meeting comments: There are two (2) specific aims: 1) the goal is to understand the molecular structure of apoA-I to provide details of the molecular features crucial to understanding the mechanisms of lipid interaction, LCAT binding and activation and HDL formation and function at a molecular level; and 2) the applicant will derive the structural details of ABCA1 and its interaction with apoA-I that are essential to understand the process of HDL biogenesis at a molecular level. cDNAs encoding apoliprotein A-1 and ApoA-1 domains and ABCA1 will be expressed in E. coli and insect cells and the resulting proteins purified for analyses. EHS staff clarified that as stated in the protocol, on the BUMC, it is appropriate for sharps containers to be disposed of in biohazardous waste boxes. It was noted that requested RPO information is provided and the BSC certification date is recent.

- In III. 1: training will be done by Other; Dr. Xiaohu Mei, Mrs. Ildiko Akey. I. Akey is not mentioned anywhere in the protocol, please add her as personnel and/or clarify her qualifications to provide training.
- Ensure that trainings are current for all personnel. Talwar needs to be cleared by ROHP.
- VIII. 1: pipetting infectious liquid is marked, clarify what is infectious.
- VIII. 7A. Final bleach 10-20%, 10% is sufficient.
- Homosapient should be Homo sapiens.

Site Assessment: Some personnel are currently completing required training; and a ROHP questionnaire is being completed by one (1) personnel.

Motion: Conditional Approval (Administrative Review)	For: 12	Recuse: 0	Against: 0	Abstain: 0	Absent: 0
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IBC Meeting Minutes: August 2020

6. Bhz – Three Year Renewal

BUA	(PI)	Title		BSL	ABSL	Campus
1968		Modeling gastric mucus la	yer physiology	2	N/A	CRC
Primary F	Reviewer: Barbar	a Slack	Secondary Reviewer: Valeda Britton			

Applicable NIH Guidelines: N/A

Meeting comments: Helicobacter interactions with the mucus layer of the stomach are studied. Bacteria to be tested include: *H. pylori, H. suis,* and *Campylobacter jejuni* (human pathogens); *H. cetorum* (infects dolphins); and *H. mustalae* (infects ferrets). Bacteria will be cultured in the lab and mixed with mucin collected from pig stomach and purified. Bacterial motility will be examined microscopically, on slides, and in microfluidic devices. Members discussed that work with pig stomach, given the potential for aerosol generation and for transmission of pathogens from pigs to humans, should be done in a BSC or with additional PPE (such as a surgical mask resistant to particles and fluids and a face shield) and that EHS should be consulted prior to resubmission to advise. ROHP's Medical Director indicated that personnel should receive the influenza vaccine.

- Provide training experience for Liao.
- Training and ROHP clearance need to be updated for Bansil.
- Section VIII.1: centrifugation should be checked (used for mucin purification).
- Section VIII.2: additional engineering controls to protect against aerosols (e.g. centrifuges with sealed rotors or sealed cups) should be used.
- Section VIII.5: when working with pig stomach, given the potential for aerosol generation and for transmission of pathogens from pigs to humans, EHS should be consulted to determine if a BSC should be used or if additional PPE is sufficient.
- Section VIII.6: describe how sharps containers will be disposed of.
- Section VIII.7: liquid waste should be decontaminated with fresh bleach at a final concentration of 10%, not "mixed with a 10% bleach solution".
- Section A. *C. jejuni* is listed in the project description and procedures sections and should therefore be added to the table.
- IX: check off potentially infectious materials, there is a reference to blood and other animal tissues in VII (3) amendment 3/16/18.

Site Assessment: The PI needs to be cleared by ROHP and needs to complete required training; the lab does not have a BSC but has a fume hood and should use a centrifuge with rotors.

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Motion: Conditional Approval (Review by R. Morales	For: 12	Recuse: 0	Against: 0	Abstain: 0	Absent: 0
and T. Winters)					

7. rDNA/Bhz – Three Year Renewal

,	Dil2 Thirde Tea					
BUA	(PI)	Title		BSL	ABSL	Campus
2248		Artificially manipulating memories in healthy and maladaptive states		2	2	CRC
Primary I	y Reviewer: Xin Brown Secondary Reviewer: Rao Varada					
Applicab	le NIH Guidelines	: Sections III-D-1-a, III-D-2-a	n, III-E-1, App. B-II-D, App. (G-II-B		
how mer viruses a generate	nories are forme re used to incorp d in the lab. The	project utilizes genetic mani d and whether memory ma orate light sensitive protein surgical procedures, histolo k is covered by an IACUC ap	nipulation can relieve the one of the one one one of the one of the one of the one of the one of th	effect of s into mou osal are d	tress. Adenc se brains. Th escribed in s	associated ne viruses are not sufficient detail.

described, and that PPE and disinfection methods seem sufficient.

• III. Personnel Information: ensure that training is current for all including BSL1/2 training. ROHP clearance is listed as inactive for E. Merfeld and N. Murawski, ensure they are cleared to work on this protocol.

- VI. DURC: the answer to the first question "Enhances the harmful consequences of the agent or toxin" is 'yes'. The work (introducing light sensitive proteins into mouse brains) does not seem to qualify as DURC. Clarify and update the response appropriately.
- IX. Materials Used in Research: Clarify what the highest BSL required for this project should be indicated as. AAV is used at BSL1.
- Under recombinant DNA, E. coli K-12 is listed as a host for plasmid vectors however, the protocol does not mention any bacterial work (it is used at UMass to generate AAV), therefore it does not need to be listed here.

Site Assessment: The personnel list needs to be updated; and the BSC is certified.

Motion: Conditional Approval (Administrative Review)	For: 12	Recuse: 0	Against: 0	Abstain: 0	Absent: 0
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8. rDNA/Bhz – Three Year Renewal

BUA	(PI)	Title		BSL	ABSL	Campus
1395		Role of the NCoR corepres	ssor complex in the	2	2	BUMC
		regulation of inflammator	ry responses and insulin			
		resistance in the adipose	tissue and immune system.			
Primary	Reviewer: Rob Da	avey	Secondary Reviewer: Susar	nna Kurni	ck	
Applicat	ole NIH Guidelines	s: Section III-D-1-a, III-D-2-a,	III-D-4-a, Section III-E-1			
Meeting	comments: The I	PI studies the role of GPS2 f	or control of diabetes and ol	pesity rela	ated diseas	e. The PI works
with mo	use and human c	ell lines transiently transfec	ted to express wild-type or r	nutant fo	rms of GPS	2, they construct
plasmid	s encoding each g	ene with epitope tags and r	nake CRISPR knockout cell li	nes. Trans	sgenic mice	e have been
made th	at lack or exogen	ously express GPS2. Transge	enic mouse embryos will be	worked w	vith. Lentivi	ruses are used to
introduc	e genes into cell	lines; these are not used in a	animals. The pLKO-puro vect	or (Missio	on, Sigma-A	Aldrich) is used;
this app	ears to be a 3-par	t, generation 3 vector and s	so has good safety aspects. P	ersonnel	have a ran	ge of experience
and trai	nees are trained b	by Dr. Cardamone (who has	9 years' experience). This is	a non-DU	RC project	, human cells
lines are	used, 10% fresh	bleach is used as a disinfect	ant, sharps are disposed of i	n sharps o	containers,	and PPE is
sufficier	it.		· · ·			
Sito Acc	assment. The lab	has an ECP: some members	are working on BOHP clears	nco train	ning is curre	nt. and the lah

Site Assessment: The lab has an ECP; some members are working on ROHP clearance; training is current; and the lab has a BSC.

For: 12

Recuse: 0

Against: 0

Abstain: 0

Absent: 0

Motion: Approve

9. rDNA/Bhz – Three Year Renewal

BUA	(PI)	Title	Title		ABSL	Campus
1957		Longevity and endoplasm	Longevity and endoplasmic reticulum stress		N/A	BUMC
		resistance				
Primary Reviewer: Elke Muhlberger		Secondary Reviewer: Bob	Timmerm	an		
Applicab	Applicable NIH Cuidelines: Section III E 8					

Applicable NIH Guidelines: Section III-F-8

Meeting comments: This protocol investigates genetic and environmental factors that affect longevity and aging using yeast as a model organism. They also analyze iron homeostasis in yeast at BSL1. At BSL2, they investigate the role of MAPK in ER stress in melanoma cells. It was noted that some of the training listed will expire soon.

- Provide the current BSC certification date.
- It seems that the lab performs cloning work with bacteria, add a sentence in the research project description briefly describing the bacterial cloning work.

Site Assessment: The BSC's are certified; some training needs to be completed; and the PI needs ROHP clearance.Motion: Conditional Approval (Administrative Review)For: 12Recuse: 0Against: 0Abstain: 0Absent: 0

10. Bhz – New Protocol

BUA	(PI)	Title	BSL	ABSL	Campus
2440		Corneal collagen crosslinking studies	2	N/A	BUMC

	De Meeting Minutes: Magust 2020
Primary Reviewer: Tom Winters	Secondary Reviewer: Valeda Britton
Applicable NIH Guidelines: N/A	

Meeting Comments: This new project will study a new treatment for people with corneal ectasia, a non-inflammatory disorder caused by thinning of the cornea. The cornea will be treated with a non-toxic solution containing riboflavin (vitamin B2) and exposed to a beam of UV-A light which will provide cross-link collagen in the cornea. Corneas will be obtained from pig and human sources. The human donor eyes have been screened for blood-borne pathogens such as hepatitis B, hepatitis C, and HIV. Treated and control samples will be transported to BMC where they will be tested with a inverse spectroscopic optical coherence tomography (ISOCT) device. Surfaces will be cleaned with antiseptics. Storage and transport with tertiary containers are controlled. Liquid and solid waste disposal is appropriate. 70% ethanol and oxavir wipes will be used to clean surfaces. It was noted that IRB approval is not required for working with postmortem cornea samples.

- Indicate whether L. Gibson is a BU employee.
- The PI needs to be added to the personnel list.
- Clarify if space in the Yawkey building is being used, if so, indicate.
- Clarify where eyes are treated before being transported to BMC.
- If any aerosol generating procedures (such as centrifugation) are being performed, check appropriate boxes in Section VIII.1.
- Update the biosafety cabinet certification date.

Site Assessment: Not complete, PI was unavailable.

Motion: Conditional Approval (Administrative Review)	For: 12	Recuse: 0	Against: 0	Abstain: 0	Absent: 0	
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11. rDNA/Bhz – New Protocol

•	DIIZ - NEW PIOL					
BUA	_(PI)	Title		BSL	ABSL	Campus
2471		A Randomized Controlled Trial	of Quetiapine for the	2	2	CRC
		Treatment of Youth with Co-Oo	curring Substance			
		Use Disorders and Severe Moo	d Dysregulation			
Primary	Reviewer: Xin Br	own	Secondary Reviewer: R	ao Varad	а	
Applicab	le NIH Guideline	s: Sections III-D-1, III-D-4-a, Appe	ndix G-II-A, G-II-B, M-II-	A, M-II-B		
Meeting	Comments: This	new protocol uses transgenic mi	ce and organoids to inv	estigate l	now differe	nt neuronal
populatio	ons and pathway	ys (e.g., nitric oxide or neuropepti	de Y) contribute to the	regulatio	n of cerebr	al blood flow
and oxyg	en consumptior	and to better understand neuro	maging data. The proto	col provi	des detaile	d information o
the mani	pulation of mice	e and organoids before they are u	sed for imaging and ele	ctrophysi	ology studi	es, as well as or
the imag	ing study itself.	Adeno-associated viral vectors (rA	AV) obtained from com	nmercial	sources wil	l be used to
introduc	e optogenetic pr	oteins either directly into mouse	brains through cranioto	omy surge	ery, or intra	ivenously.
Human i	nduced pluripote	ent-stem-cell (hIPSC) derived orga	noids will be transduce	d with le	ntivirus veo	tors to express
optogen	etic proteins and	will either be implanted into mo	use brains or used dired	ctly in an	<i>in vitro</i> ima	iging chamber.
Tamoxife	en will be used to	o induce conditional gene express	ion of Cre recombinase	variants	in transger	nic mice.
Tetrodot	oxin will be used	d to block action potential firing d	uring <i>in vitro</i> experimer	nts with c	organoid cu	ltures. Proposed
safety m	easures includin	g animal work procedures and wa	aste disposal procedure	s are wel	l described	. It was noted
that a ve	ry small amount	of Tetrodoxin (a select agent) is l	peing used (1mg); EHS s	taff indic	ated that tl	he cumulative

- amount of Tetrodotoxin in the lab must be known to ensure that limits are not exceeded.
 - N. Formin-Thunemann's ROHP clearance needs to be updated.
 - It is stated in the protocol that recombinant adeno-associated viruses will be stored in a -80 freezer in (shared with X. Han). These viruses are no longer stored in ERB623; update this information.
 - Uncheck 'synthetically derived DNA' in Section IX.
 - Provide the cumulative amount of Tetrodotoxin (a select agent) that may be in the lab at any given time.

Site Assessment: The lab has a ECP; ROHP clearance needs to be updated for few members; and training is current.Motion: Conditional Approval (Administrative Review)For: 12Recuse: 0Against: 0Abstain: 0Absent: 0

12. rDNA/Bhz – New Protocol

IBC Meeting Minutes: August 2020

					IBC MEET	ing Minutes: August 20
BUA	(PI)	Title		BSL	ABSL	Campus
2464		Cell Line Engineerin	g with Genomics Tools	2	N/A	BUMC
Primary	Reviewer: Carme	la Abraham	Secondary Reviewer: F	Ron Morales	•	
Applicab	ole NIH Guidelines	s: Sections III-D-1-a, III	I-D-2-a, III-E-1			
collabor with who	ators and uses sta om the PI collabo It is indicated tha	andard molecular biol rates. t "No animal or huma	roteins (including antibodies) o ogy techniques. It was noted t in samples are used, just cell li are human, they were isolated	that X. Zhong	s is a BUMC	faculty member Nothing
•	Clarify if bacterial bleach should be Confirm and clari	10%. fy that following use,	0% fresh bleach is solid or liqu scalpel blades are discarded d ning (given use of human cells)	irectly into sl	•	

Site Assessment: No findings.

Motion: Conditional Approval (Administrative Review) For: 12 Recuse: 0 Against: 0 Abstain: 0 Absent: 0	8					
	Motion: Conditional Approval (Administrative Review)	For: 12	Recuse: 0	Against: 0	Abstain: 0	Absent: 0

13. rDNA/Bhz – Amendment

BUA	BUA (PI) Title BSL ABSL Campus						
1750Role of myo1c in adaptation in the inner ear22BUMC						BUMC	
Primary Reviewer: Barbara Slack Secondary Reviewer: Ron Morales							
Applicable NIH Guidelines: Section III-D-1-a, III-D-2-a, III-D-4-a, III-E-1							
Meeting comments: The PI is adding procedures to generate recombinant adenovirus expressing myosin 1 to be used							
in rescue	in rescue experiments in a rat insulinoma cell line.						

- Section A: add adenovirus to list of hazardous biological agents (BSL2).
- Section VIII.1: animal handling and animal inoculation should be checked.
- Section VIII.5: update the certification date for the BSC.
- Section H-17: checked 'no' to transgenic/knockout mice, the lab procedures section describes use of knockout mice (Myo1c f/f/ x inducible Cre); reconcile.

Motion: Conditional Approval (Administrative Review)	For: 12	Recuse: 0	Against: 0	Abstain: 0	Absent: 0
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14. rDNA/Bhz – Amendment

BUA	(PI)	Title	BSL	ABSL	Campus
1530		A Systems Biology Approach to Tube	culosis 2	2	CRC & BUMC
		Biosensors for Physiological Monitori	ng		
		Identifying Molecular Signatures of D	rug		
		Susceptibility			
		A Diagnostic for Viral DNA			
Primary	Reviewer: Tom	Winters	Secondary Reviewer: I	nna Afasizhev	a
Applicab	le NIH Guidelir	es: Section III-D-1-a, III-D-2-a, Appendix I	-II-A, Appendix G-II-B-	1	
Meeting	comments: Th	e lab uses non-pathogenic relatives of M	cobacterium tubercul	osis – BCG and	Mycobacterium
smegmis	s as well as Acti	nomycetes, non-pathogenic, as models to	decipher gene regula	tion. The ame	ndment includes
a plan to	acquire plasm	ids with cDNA for portions of the corona	rirus RNA genome. Thi	s will be used t	o model this
DNA to t	est different D	NA recognition strategies. No live virus or	SARS-CoV-2 proteins	are used. Mem	bers discussed
that the	submission cou	uld be approved without the following cla	rifications (based on a	reviewers con	nments): 1) to
provide	source informa	tion for SARS-CoV-2 genome containing p	lasmids; and 2) to pro	vide informatio	on about the
	l strain and me				

proposing to encode a portion of the genome.

IBC Meeting	Minutes:	August	2020
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Motion: ApproveFor: 12Recuse: 0Against: 0Abstain: 0Absent: 0)
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15. rDNA/Bhz – Amendment

BUA	(PI)	Title		BSL	ABSL	Campus
1459		Uremic vascular disease and cancer biology		2	2	BUMC
Primary Reviewer: Carmela Abraham		Secondary Reviewer: Tom Winters				
Additional Reviewer: Ron Morales						

Applicable NIH Guidelines: Sections III-D-1-a, III-D-2-a, Appendix B-II-A.

Meeting Comments: The PI is requesting approval to conduct experiments with plasma obtained from patients with COVID-19 (C-19) at BSL2+. No live virus experiments will be performed. The experiments aim to determine the detrimental effects of C-19 plasma on kidney and renal microvasculature by treating commercially available human endothelial and kidney epithelial cells with C-19 plasma. Plasma will also be used to examine tissue factor activity and activity of signaling pathways. C-19 plasma is from the BU-BMC biorepository. Members discussed that Trizol treatment of biological samples is a commonly used, EHS approved method of virus inactivation. EHS staff indicated that the PI requested guidance to upgrade their lab from BSL2 to BSL2+ (which EHS has already provided). It was noted that the PI indicated that he will be the only person handling C-19 plasma samples.

In Section IX mark the highest biosafety level of this protocol as 'BSL-2 with special practices of BSL-3'.
Motion: Conditional Approval (Administrative Review) For: 12 Recuse: 0 Against: 0 Abstain: 0 Absent: 0

16. Bhz – Amendment

BUA	(PI)	Title			BSL	ABSL	Campus
1788		Provide services related to th	e use of Flo	w	2+	NA	BUMC
		Cytometer analyzer and cell s	sorting inst	ruments.			
Primary Reviewer: Robin Ingalls				Secondary Reviewer: Ron Morales			
Applicab	le NIH Guidelin	nes: N/A					
Meeting	Comments: Th	nis amendment requests the addi	tion of seru	ım or plasma	from COVI	D-19 patients t	that have
been fou	ind to have un	detectable antibodies against the	nucleocap	sid protein as	s measured	by the Abbot	SARS-CoV-2
antibody	ELISA emerge	ency use authorization (EUA) kit. T	he goal is t	o determine	if there are	other SARS-Co	oV-2
	•	detected by ELISA using other hig	•				
		ohenotypes. Samples will be obta	•	•			
•	•	nvironment by any aerosols gene			•	•	
		10% bleach per core protocols. N		• •		•	
	•	OVID-19 virus RNA are detected i			•	•	
				-			-
	. .	g of COVID-19 plasma is very low,	•				•
of COVID	0-19 plasma sa	mples be done at BSL2+ containm	nent. It was	noted that a	ll proposed	l manipulation	of serum
will be d	one in a BSC u	sing BSL2+ PPE.					
Motion:	Approve		For: 12	Recuse: 0	Against: C	Abstain: 0	Absent: 0