



University of Missouri-Columbia Institutional Biosafety Committee

Meeting Minutes

July 17, 2025, 2:00–4:00pm

Members in Attendance = 11

Aarattuthodi, Suja	Hynes, Steve
Calcutt, Michael	Korte, Scott
Casterline, Ben	Kalera, Karishma
Cui, Taxing	Rehard, David
Dickerson, Marie	
Gillman, Jason	

Members Absent = 5

	Griffiths, Anthony
Attebury, David	Ma, Wenjun
Heng, Xiao	Popejoy, Sid

Others in Attendance = 4

Hamilton, Anna	O'Connor, Erin
Henegar, Jeff	Szewczyk, Michael

I. IBC Chairman called the meeting to order at 2:00pm

II. Approval of 6/17/2025 Meeting Minutes

IBC members reviewed the meeting minutes. The IBC Chairman called for motions for approval. There were two motions for approval and a final request for a vote. 11 members voted for approval. 0 No. Abstain.

III. Protocol reviews

A. New and Renewal Protocols Involving Recombinant and/or Synthetic Nucleic Acid Molecules, Requiring Full Committee Review

1. Hamilton, Corri (22741)

Non-Select Agent - *Ralstonia solanacearum*, *Ralstonia pseudosolanacearum*, & *Pseudomonas fluorescens*

Guidelines: Sections E2, F

Containment: BSL-2

Training: Up to date

Inspection: Passed

Status: Approved

Committee deliberations: There were two motions for approval and a final request for a vote. After discussion, all members voted in favor of approval. 0 No. 0 Abstain.

2. Hamilton, Corri (22742)

Human Pathogen- *Pseudomonas aeruginosa*

Guidelines: Sections E2, F

Containment: BSL-2

Training: Up to date

- Inspection: Passed*
Status: Approved
Committee deliberations: There were two motions for approval and a final request for a vote.
After discussion, all members voted in favor of approval. 0 No. 0 Abstain.
- 3. Braun, David (10237)**
Molecular genetic analyses of corn
Guideline: Sections E2
Containment: BSL-1
Training: Up to date
Inspection: Passed
Status: Approved
Committee deliberations: There were two motions for approval and a final request for a vote.
After discussion, all members voted in favor of approval. 0 No. 0 Abstain.
- 4. Sowa, Grzegorz (10192)**
Caveolin-2 and cell function
Guideline: Section D
Containment: BSL-2
Training: Up to date
Inspection: Passed
Status: Approved
Committee deliberations: There were two motions for approval and a final request for a vote.
After discussion, all members voted in favor of approval. 0 No. 0 Abstain
- 5. Duan, Dongsheng (10181)**
Xenograft model for Duchenne muscular dystrophy gene therapy
Guideline: Sections D-4, E, E-3
Containment: BSL-2
Training: Up to date
Inspection: Passed
Status: Approved
Committee deliberations: There were two motions for approval and a final request for a vote.
After discussion, all members voted in favor of approval. 0 No. 0 Abstain
- 6. Chen, Paula (17840)**
Genetic Modifications of Avians
Guidelines: Sections D, D-2, D-3, D-4, E
Containment: BSL-2
Training: Up to date
Inspection: Passed
Status: Approved
Committee deliberations: Admin added 4 rooms in ASRC. There were two motions for approval and a final request for a vote. After discussion, all members voted in favor of approval. 0 No. 0 Abstain
- 7. Bowles, Douglas (15920)**
Transduction of pig, rat, and mouse smooth muscle cells with adenoviral vectors expressing GFP, REST, ion channels, and/or short hairpin RNAs
Guideline: Section D-3
Containment: BSL-2
Training: Up to date

- Inspection: Passed*
Status: Approved
Committee deliberations: There were two motions for approval and a final request for a vote.
After discussion, all members voted in favor of approval. 0 No. 0 Abstain
- 8. Winuthayanon, Wipawee (18080)**
Steroid hormone action in the reproductive system and non-hormonal contraceptive development
Guideline: Section D-4
Containment: BSL-2
Training: Up to date
Inspection: Passed
Status: Approved
Committee deliberations: There were two motions for approval and a final request for a vote.
After discussion, all members voted in favor of approval. 0 No. 0 Abstain
- 9. Picking, William (17940)**
Pathogen usage in the Picking laboratories
Guideline: Section D-2
Containment: BSL-2
Training: Up to date
Inspection: Passed
Status: Approved
Committee deliberations: There were two motions for approval and a final request for a vote.
After discussion, all members voted in favor of approval. 0 No. 0 Abstain
- 10. Heese, Antje (10108)**
Vesicular Trafficking in Plant Innate immunity
Guideline: Section E-2
Containment: BSL-1
Training: Up to date
Inspection: Pending
Status: Approved
Committee deliberations: There were two motions for approval after inspection approval, and a final request for a vote. After discussion, all members voted in favor of approval. 0 No. 0 Abstain
- 11. Johnson, Marc (10118)**
Propagation and inhibition of replication defective enveloped viruses
Guidelines: Sections D, D-2, D-3
Containment: BSL-2
Training: Up to date
Inspection: Passed
Status: Approved
Committee deliberations: There were two motions for approval and a final request for a vote.
After discussion, all members voted in favor of approval. 0 No. 0 Abstain
- 12. Martinez-Lemus, Luis (17080)**
Mechanisms of endothelial dysfunction and arterial stiffening
Guidelines: Sections D, D-2, D-3, D-4, E-3
Containment: BSL-2
Training: Up to date
Inspection: Passed

Status: Approval via DMR

Committee deliberations: There were two motions for approval via DMR with Korte, and a final request for a vote. After discussion, all members voted in favor of approval via DMR. 0 No. 0 Abstain

13. Chen, Shiyu (10310)

Artery wall homeostasis, targeting response gene to complement 32 to alleviate vascular remodeling, Novel Mechanisms underlying abdominal aortic aneurysm progression, Dedicator of cytokinesis 2 in pulmonary arterial hypertension

Guideline: Section D-4

Containment: BSL-2

Training: Up to date

Inspection: Passed

Status: Approved

Committee deliberations: There were two motions for approval and a final request for a vote. After discussion, all members voted in favor of approval. 0 No. 0 Abstain

B. New and Renewal Protocols Involving Other Biohazardous Materials, Requiring Full Committee Review

1. Beversdorf, David (10158)

Biological Sample Storage for the Study of Mental Health Conditions in Humans and Animal

Containment: BSL-2

Training: Up-to-date

Inspection: Passed

Status: Approved

Committee deliberations: There were two motions for approval and a final request for a vote. After discussion, all members voted in favor of approval. 0 No. 0 Abstain.

2. Lin, Mengshi (10252)

Use Vibrational Spectroscopy to study foodborne pathogens

Containment: BSL-2

Training: Up-to-date

Inspection: Passed

Status: Approved

Committee deliberations: There were two motions for approval and a final request for a vote. After discussion, all members voted in favor of approval. 0 No. 0 Abstain.

3. Moore, Susan (18240)

MU VMDL One Health Laboratory Rabies Serology Testing

Containment: BSL-2

Training: Up-to-date

Inspection: Passed

Status: Approved

Committee deliberations: There were two motions for approval and a final request for a vote. After discussion, all members voted in favor of approval. 0 No. 0 Abstain.

C. Amendments Requiring Full Committee Review

None

D. New and Renewal Protocols Requiring IBC Chair and Biological Safety Officer Review Only

None

E. Amendments Requiring IBC Chair and Biological Safety Officer Review Only

PI (#)	Submitted	Title	Notes
Edwards, Wilson (12901)	6/3	Development of radiotracers for molecular imaging	<i>EHS Approved 7/2</i>
Griffiths, Anthony (20760)	6/18	Toward vaccines and treatments of Risk Group 2 and 3 viruses	<i>Chair, EHS Approved 6/27</i>
Sun, Hongmin (16600)	6/9	Molecular mechanism of host coagulation system in Group A, B, C streptococcus, staphylococcus and S. pneumoniae infection and thrombosis formation	<i>EHS Approved 6/26</i>
Yolcu, Esmā (11560)	6/24	Umbrella IBC for Shirwan and Yolcu programs	<i>EHS Approved 6/26</i>
Gangwani, Laxman (18782)	6/10	Molecular basis of neurodegenerative disorders	<i>Chair, EHS Approved 6/26</i>
Dai, Yuan (21820)	6/18	Biosynthesis and bioremediation of chemicals and materials	<i>Chair, EHS Approved 6/26</i>
Patterson, Amanda (10048)	5/22	Mechanisms of Uterine Repair in Health and Disease	<i>Chair, EHS Approved 6/26</i>
Bryan, Jeffrey (14660)	5/2	Immunotherapy Investigation with Canine Oncology Patients	<i>EHS Approved 6/24</i>
Brockman, John (17380)	5/2	Analysis of trace elements in human blood plasma, serum, and whole blood samples for research studies	<i>Chair, EHS Approved 6/24</i>
Olson, Rachel (10064)	5/22	LIDR Animal Infection and Monitoring Services Core	<i>EHS Approved 6/24</i>
Cui, Taixing (19000)	6/23	Molecular Mechanism of Cardiovascular Disease	<i>EHS Approved 6/24</i>
Sparks, Erin (22841)	6/20	Development and Function of Plant Roots	<i>EHS Approved 6/23</i>
Martinez-Lemus, Luis (17080)	6/10	Mechanisms of endothelial dysfunction and arterial stiffening	<i>EHS Approved 6/19</i>
Khan, Syamantak (22561)	6/18	Culturing mammalian cell lines and patient-derived organoids	<i>EHS Approved 7/2</i>
Bryan, Jeffrey (10131)	5/19	Development of viroimmunotherapy for malignant melanoma	<i>EHS Approved 7/2</i>
Jia, Guanghong (12440)	7/2	Endothelial mineralocorticoid receptors in diet-induced skeletal muscle insulin resistance	<i>EHS Approved 7/8</i>
Olson, Rachel (11160)	6/5	Prevention and treatment of acute respiratory disease caused by coronaviruses	<i>EHS Approved 7/8</i>

Chapman, Michael (17140)	6/30	Structure-function of AAV - A viral gene therapy vector	<i>EHS Approved 7/8</i>
DeFigueiredo, Paul (19620)	6/18	Molecular Analysis of Biological Systems	<i>VET, EHS Approved 7/10</i>
Lange-Osborn, Margaret (10225)	7/15	Host-Virus Interactions in Mammalian Cells	<i>EHS Approved 7/16</i>

IV. Business

A. DMR UPDATE

PI (#)	Reviewer	Submitted	Title	Notes
Singh, Kamendra (15620)	Calcutt Rehard	5/12	Cloning genes for bacterial, viral and eukaryotic proteins into bacterial plasmids	<i>Amendment June DMR – Calcutt returned to PI</i>
Wan, XiuFeng Henry (10071)	Heng Korte	4/8	Ecology, Evolution, and Host Pathogen Interactions of Influenza Viruses Using Systems Biology Approaches	<i>TABLED in May June DMR - Rehard and Hynes Approved 7/16</i>
Lange-Osborn, Margaret (21500)	Griffiths	5/20	Using molecular tools to study the role of capsid structural forms in HIV replication	<i>June DMR – Rehard and Griffiths Approved 7/16</i>
Telugu, Bhanu (17720)	Cui Korte	5/6	Stem cells and chimeras in mice	<i>June DMR – Korte Approved 7/15</i>
Raghavan, Ram (23240)	Calcutt	4/22	Ticks and tick-borne pathogen surveillance	<i>June DMR – Calcutt returned to PI</i>
Walker, Lianna (23400)	Ma	5/21	Identification of Causal Genetic Variants to Improve Pig Production	<i>June DMR – Rehard Approved 6/18</i>
Newton-Northup, Jessica (10212)	Heng	5/2	Cell Line Identification and Characterization by Dual Targeting of Phenotypic Markers	<i>May DMR – Heng returned to PI</i>
Kil, Kun-Eek (16920)	Ma Korte	1/24	Culturing of tumor cell lines and implantation to prepare xenograft mice	<i>April DMR – Korte returned to PI</i>
Andel, William (13640)	Calcutt	10/2	Application of novel antibacterial nanotextured materials	<i>NOVEMBER 2024 DMR - Hynes & Rehard - Inspection needed, awaiting lab setup WITHDRAWN 7/11</i>

B. Policies/Guidelines

- a. (Hynes) – IBC Guidance for working with SARS-CoV-2 (New Policy)
 - 1. ***There were two motions for approval and a final request for a vote. After discussion, all members voted in favor of approval. 0 No. 0 Abstain***
 - 2. *Admin will add to website*

TABLED:

- b. (Henegar, Hynes) – Human Gene Transfer Trials Serious & Adverse Event Reporting, 2013
- c. (Hynes, Rehard) – Toxins of Biological Origin, 2013
- d. (Kennett, Henegar, Hynes, Hamilton) – Dual Research of Concern, DURC & PEPP, 2015
 - 1. [IBC website](#) has been modified to include DURC info
 - 2. Questions added to IBC form and EHS checklist
 - 3. Awaiting further instruction from the government (Sept)

V. BSO Report/Select Agent RO/ARO

- A. A PI at LIDR that was working with an attenuated (BSL-2) strain of *Francisella tularensis*, specifically the SCHU S4ΔclpB strain. This strain contains a deletion of the clpB chaperone which is an important contributor to intracellular growth and virulence. This work was done without IBC approval. The PI has submitted an IBC amendment adding this work in case they decide to use it again in the future.

VI. SARO Report

- A. There was a select agent spill at LIDR involving *Francisella tularensis*. The contents of the shaker were contained within the sealed incubator. In consultation with the LIDR BSO, staff involved cleaned up the spill within the sealed incubator. As required by federal regulations, a CDC Form 3 was submitted which has been closed out without any further action needed.

VII. Institutional Official Report

- A. IO absent

VIII. Closing remarks by IBC Chair, Members, and Adjournment

- A. The meeting was adjourned at 3:44pm