



University of Missouri-Columbia Institutional Biosafety Committee

Meeting Minutes

October 23, 2025, 2:00–4:00pm

Members in Attendance

Attebury, David	Hynes, Steve
Casterline, Ben	Korte, Scott
Chandrasekhar, Anand	Kalera, Karishma
Cui, Taxing	Ma, Wenjun
Dickerson, Marie	Popejoy, Sid
Griffiths, Anthony	Rehard, David
Heng, Xiao	

Members Absent

Aarattuthodi, Suja	Gillman, Jason
Calcutt, Michael	

Others in Attendance

Hamilton, Anna	O'Connor, Erin
Henegar, Jeff	Rhoades, Jamie
Kennett, Michele	Steenek, Amy (OAR)
(Dr. Wan joined at 2:40 to	discuss his amendment)

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

II. Approval of 9/18/2025 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. 13 members voted for approval. 0 No. Abstain.

III. Approval of October 15, 2025, ad hoc 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. 13 members voted for approval. 0 No. Abstain.

IV. Protocol reviews

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

1. Griffiths, Anthony (20760)

Toward vaccines and treatments of Risk Group 2 and 3 viruses

Guideline: Sections D, D-2, D-3, D-4, D-7, E, E-3

Containment: BSL-3

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. Ma, Wenjun (23640)

Using reverse genetics-derived and wild type SARS-CoV-2 viruses to understand virus biology and test antiviral and vaccine efficacy

Guideline: Sections D-3

Containment: BSL-2

Training: Up to date

Inspection: Passed

Status: Tabled

Committee deliberations: There were two motions for tabling the protocol for one more month, while the Policy gets finalized, and a final request for a vote. After discussion, all members voted in favor of tabling. 0 No. 0 Abstain.

- **Dr. Wan entered the meeting at 2:40pm** to discuss the protocol amendment for **10151**, currently under review. Dr. Wan updated the committee with their recent findings regarding influenza detection timeframe. The committee discussed appropriate containment levels for the animals. The amendment remains under DMR.

3. Olson, Rachel (23743)

FFS Projects

Guideline: Sections D-3

Containment: BSL-3

Training: Up to date

Inspection: Passed

Status: Approved

Committee deliberations: There were two motions for approval via DMR with Kalara, and a final request for a vote. After discussion, 12 members voted in favor of approval. 0 No. 1 Abstain

4. Bhandari, Ramji (23820)

Epigenome editing with CRISPR-dCas9 tools

Guideline: Sections D-4

Containment: BSL-2

Training: Up to date

Inspection: Passed

Status: Approval via DMR

Committee deliberations: There were two motions for approval, and a final request for a vote. After discussion, 13 members voted in favor of approval. 0 No. 0 Abstain

5. Linhoff, Michael (23720)

Establishing a Neuronal Co-Culture System for Studying Autism-Associated Mutations in Cell Adhesion Molecules

Guideline: Sections D-2

Containment: BSL-2

Training: Up to date

Inspection: Passed

Status: Approval via DMR

Committee deliberations: There were two motions for approval via DMR with Rehard, and a final request for a vote. After discussion, 12 members voted in favor of approval. 0 No. 1 Abstain

6. Kelleher, Andrew (18440)

Mechanisms Governing Uterine Epithelial Plasticity

Guideline: Sections D-3, E, E-3, 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, 13 members voted in favor of approval. 0 No. 0 Abstain

7. Whyte, Jeffrey (10120)

LIDR Immunology Core

Guideline: Sections D, D-2, D-7

Containment: BSL-3

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, 12 members voted in favor of approval. 0 No. 1 Abstain

8. Rachagani, Satyanarayana (18500)

Mechanistic and therapeutic studies on various cancers

Guideline: Sections D-3, D-4, 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, 13 members voted in favor of approval. 0 No. 0 Abstain

9. Clarke, Lane (10107)

Gene Therapy of Intestinal and Gallbladder Dysfunction in Cystic Fibrosis Mice

Guideline: Sections D, 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, 13 members voted in favor of approval. 0 No. 0 Abstain

10. Bryan, Jeffrey (10131)

Development of viroimmunotherapy for malignant melanoma

Guideline: Sections D, 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, 13 members voted in favor of approval. 0 No. 0 Abstain

11. Shiu, Patrick (10562)

Meiotic Silencing by Unpaired DNA

Guideline: Sections E-2

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, 13 members voted in favor of approval. 0 No. 0 Abstain

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

1. Domeier, Timothy (11660)

Cardiomyocyte Structure and Function in Human Disease

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. Schrum, Adam (13360)

Network protein signatures of T cell antigenic signaling in humanized-mouse model of Alopecia Areata

Containment: BSL-2

Training: Up-to-date

Inspection: Passed

Status: Approval via DMR

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

3. Gil Pages, Diana (10128)

Novel Cancer Immunotherapies

Containment: BSL-2

Training: Up-to-date

Inspection: Passed

Status: Approval via DMR

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

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

1. Brockman, John (17380)

Analysis of trace elements in human blood plasma, serum, and whole blood samples for research studies

Training: Up-to-date

Inspection: Passed

Status: Approved

2. Wells, Kevin (21580)

Evaluation of Transgene-Based Pathways in In Vitro Cultured Cells

Training: Up-to-date

Inspection: Passed

Status: Approved

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

PI (#)	Submitted	Title	Notes
Clarke, Lane (10261)	9/22	Steroid hormone action in the reproductive system and non-hormonal contraceptive development	<i>EHS Approved 9/22</i>
Winuthayanon, Wipawee (18080)	9/11	Steroid hormone action in the reproductive system and non-hormonal contraceptive development	<i>EHS Approved 9/22</i>
Chen, Shiyu (10310)	9/9	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	<i>Chair, EHS Approved 9/22</i>
Duan, Dongsheng (15240)	8/25	AAV Gene Therapy in Canine Model	<i>EHS Approved 9/23</i>
Green, Jonathan (11920)	9/9	Somatic Cell Genome Editing Large Animal Testing Center (LATC)	<i>EHS Approved 9/24</i>
Tharp, Darla (13201)	9/30	Determining the Efficacy of Gene Therapy and Regenerative Medicine in Heart Failure	<i>EHS Approved 10/2</i>
Jeong, Jae Wook (18060)	9/26	Pathophysiology of female infertility, endometriosis, and endometrial cancer	<i>EHS Approved 10/2</i>
Wan, XiuFeng Henry (10071)	10/1	Ecology, Evolution, and Host Pathogen Interactions of Influenza Viruses Using Systems Biology Approaches	<i>EHS Approved 10/3</i>
Palaniyandi, Senthilnathan (18920)	9/22	Novel therapeutic approach to hematological malignancies	<i>EHS Approved 10/6</i>
Gangwani, Laxman (18782)	9/11	Molecular basis of neurodegenerative disorders	<i>EHS Approved 10/6</i>
Castoro, Ryan (20480)	9/23	Genetic and Epigenetic regulation of motor and sensory nerve degeneration in inherited and sporadic nerve diseases	<i>EHS Approved 10/8</i>
Ma, Wenjun (12100)	9/19	Application of reverse genetic techniques to Influenza A Viruses (BSL-2)	<i>EHS Approved 10/8</i>
Ateya, Mostafa (11060)	9/11	Immunity of Escherichia coli infections	<i>EHS Approved 10/8</i>
Durie, Clarissa (16420)	10/9	Protein secretion by the Legionella pneumophila Dot/Icm T4SS	<i>EHS Approved 10/10</i>
Sun, Hongmin (16600)	9/9	Molecular mechanism of host coagulation system in Group A, B, C streptococcus,	<i>EHS Approved 10/15</i>

		staphylococcus and S. pneumoniae infection and thrombosis formation	
Singh, Pawan (15640)	9/30	Role of Flaviviruses in Pathogenesis of Ocular Infections	<i>EHS Approved 10/15</i>
Grisanti, Laurel (13580)	9/29	Inflammation in the Damaged Heart	<i>EHS Approved 10/20</i>
Stoker, Aaron (10240)	10/6	Study of Human and Animal tissues/fluids/bones	<i>EHS Approved 10/21</i>
Teixeiro Pernas, Emma (11960)	10/16	T cell development and T cell responses to infectious diseases and cancer	<i>Chair, EHS Approved 10/21</i>
Nutter, Curtis (21260)	9/8	RNA regulation of membrane transport, neurological development and disease	<i>EHS Approved 10/22</i>

V. Business

A. DMR UPDATE

PI (#)	Reviewer	Submitted	Title	Notes
Wan, XiuFeng Henry (10151)	Rehard, Calcutt, Korte	9/4	Influenza Infection and Husbandry for Animal Studies	<i>FCR Amendment. Tabled in September. Ad hoc meeting held 10/15. DMR - Calcutt</i>
Wan, Caixia (17520)	Calcutt	5/19	Microbial cultures of Biological Safety Level (BSL2) strains	<i>Sept DMR – Calcutt Approved 10/8</i>
Ierardi, Rosalie (23840)	Calcutt Korte	8/28	Epidemiology of ticks and tick-borne livestock pathogens in Missouri	<i>Sept DMR – Rehard Approved 10/15</i>
Wells, Kevin (21320)	Griffiths	5/30	Genetically Engineering Virus Resistant Cell Lines	<i>Sept DMR – Griffiths Approved 9/29</i>
Davis, Daniel (21280)	Korte	8/12	Animal Modeling Core	<i>Sept DMR – Korte Approved 10/2</i>
Balboula, Ahmed (23641)	Dickerson	7/1	Mechanisms regulating human oocyte meiosis	<i>August DMR – Dickerson Returned to PI</i>
Whiting, Rebecca (10250)	Ma Korte	5/28	Gene and Enzyme Replacement Therapy for TPP1 Deficiency	<i>Approved 10/7</i>
Singh, Kamendra (15620)	Calcutt Rehard	5/12	Cloning genes for bacterial, viral and eukaryotic proteins into bacterial plasmids	<i>Approved 9/24</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 Multiple reminders have been sent.</i>

B. [Policies/Guidelines](#) – ALL TABLED

1. Dual Research of Concern, DURC & PEPP, 2015 - **TABLED awaiting further instruction from the government**
 - o ([IBC website](#) has been modified to include DURC info, questions added to IBC form and EHS checklist)
2. Human Gene Transfer Trials Serious & Adverse Event Reporting, **2013**
3. Toxins of Biological Origin, **2013** (EHS)
4. IBC Policy for SARS-CoV-2 – (Kennett, Hynes, Rehard, Griffiths, Henegar)

VI. BSO Report

- A. None

VII. Select Agent RO/ARO Report

- A. Responses have been submitted to the CDC for the Select Agent inspection.
B. ABSL3 East has passed recommissioning test and should be opening soon.

VIII. Institutional Official Report

- A. None

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

- A. IBC training was tabled for time.
B. In light of the recent findings reported by Dr. Wan today, Korte would like to call the amendment for **Wan (10151)** back to FCR, from DMR, and volunteered to become the Primary Reviewer.
C. The meeting was adjourned at 4:05pm.

*FCR = Full Committee Review. Approval requires a majority vote at the meeting.

*DMR = Designated Member Review. Approval happens once the designated member is satisfied.