Institutional Biosafety Committee
8/1/2025, 12:00PM – 12:40PM
Teleconference

Minutes

Voting Members Present: Brian Taylor, Ami A. Patel, Marianne Cloeren, Karen Scanlon, Alan Schmaljohn, Elizabeth Bramhall, J. Kristie Johnson, John O'Neill, Irina Luzina, Janna Barcelo, Robert Ernst, Ciaran Skerry, Matthew Fischer

Voting Members Absent: Ron McNeil, Melissa Morland, Anthony Kim, Theresa Marth, Joseph Gillespie, Matthew Frieman, Sherry Bohn, Jessie Duggan, Alfredo Garzino-Demo

Other Person(s) Present: No other persons were present at the meeting.

Staff Present: Matthew Fischer, John O'Neill, Holda Ramos

1 Vote on Last Meeting's Minutes

Institutional Biosafety Committee meeting on 7/11/2025
Votes to approve minutes: 11, Disapprove: 0, Abstain: 1
One member elected to abstain due to absence at the previous meeting.

2 New Business

This meeting of the IBC is open to the public pursuant to the NIH Guidelines, Section IV-B-2-a-(6).

- Our next meeting is scheduled for Friday, September 5th.
- Member issues
    - None presented at meeting.

3 Select Agent Program Oversight

- Our April verification inspection has been officially closed out.

4 Reportable Incidents

- No reportable events occurred this month.

5 New IBC Submission

Short Title:	Virotherapy for vaccine and oncology applications
Investigator:	Bolni Nagalo
ID:	IBC-00008432
Analyst:	John O'Neill
VA-Related:	No
Discussion:	This protocol involves the use of vesicular stomatitis virus and derived vectors, lentiviral vectors, and adenoviral vectors in mammalian cells and animals. This work is classified

by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-1-a using BSL-2/ABSL-2 facilities and practices with sharps precautions. This protocol also involves the use of AAV in murine cells which will be engrafted in animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-4-a using BSL-1/ABSL-1 facilities and practices. The following modifications are required to secure approval: 1) Consider reworking the abstracts for ease of future modifications; 2) Reconcile the personnel lists between the IBC protocol and the animal-use protocol; 3) Add detail in the experimental design for the purpose of vaccinia virus; 4) Consider reworking the experimental design for ease of future modifications; 5) Add the animal-use protocol number; 6) Add all laboratory locations; 7) Add an entry on the Recombinant DNA Questions page for vaccinia virus since it is recombinant; 8) Correct the NIH Guideline for replication-competent viruses to III-D-3a; and 9) Discuss plan for poxvirus vaccination of personnel.

Motion: RMSA

Vote: For: 12, Against: 0, Abstained: 0, Recused: 0

6 Modification Discussions

Short Title: Lipid A modification of Gram-negative bacteria

Investigator: Robert Ernst

ID: IBC-00000053

Analyst: John O'Neill

VA-Related: No

Discussion: This modification involves the use of a *P. aeruginosa* mutant strain in animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-2-a using BSL-2/ABSL-2 facilities and practices. The following modifications are required to secure approval: 1) Fill in omitted answers in the recombinant DNA table and 2) Update the name of University of Maryland Campus Health.

Motion: RMSA

Vote: For: 12, Against: 0, Abstained: 0, Recused: 1 (Robert Ernst)

Short Title: Vascular signaling plasticity

Investigator: Thomas Longden

ID: IBC-00006386

Analyst: Holda Ramos

VA-Related: No

Discussion: This modification involves the use of AAV in animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-4-a and is approved using ABSL-1 facilities and practices.

Motion: Approve the Modification

Vote: For: 13, Against: 0, Abstained: 0, Recused: 0

Short Title: Screening of BSL2 viruses with anti-viral compounds

Investigator: Matthew Frieman
ID: IBC-00002948
Analyst: John O'Neill
VA-Related: No
Discussion: This modification involves the addition of two recombinant influenza strains used in mammalian cells. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-7 using BSL-2 facilities and practices. The following modifications are required to secure approval: 1) Clarify that the newly added influenza strains will not be used in animals and 2) Correct the units of concentration in Risk Assessment page 1, Question 5.
Motion: RMSA
Vote: For: 12, Against: 0, Abstained: 0, Recused: 1 (Robert Ernst)

Short Title: Molecular and Functional Studies of Depression and Addiction on Brain
Investigator: Mary Kay Lobo
ID: IBC-00001687
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification involves the addition of several AAV constructs which will be used in animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-4-a using ABSL-1 facilities and practices.
Motion: Approve the Modification
Vote: For: 13, Against: 0, Abstained: 0, Recused: 0

7 RMSA Follow Up

Short Title: Maintenance of transgenic and wild type zebrafish for molecular endocrinology and developmental biology studies.
Investigator: Yonathan Zohar
ID: IBC-00002423
Analyst: John O'Neill
VA-Related: No
Discussion: This modification involves the use of plasmids for the creation of transgenic animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-4-a and is approved using ABSL-1 facilities and practices. This modification also involves the use of Crispr/Cas9 technology without a vector to create transgenic animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-4-a and is approved using ABSL-1 facilities and practices. The following modification was made to secure approval: Updated the personnel listed.
Status: Approved

Short Title: Role of Cacna1c in mood disorder related behaviors in the mouse using AAV Cre to delete Cacna1c in Floxed Cacna1c mice.
Investigator: Todd Gould
ID: IBC-00002171
R Analyst: Holda Ramos
VA-Related: No
Discussion: This modification involves the addition of AAV constructs used in animals. This work is classified by the NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules as III-D-4-a and is approved using BSL-1 and A-BSL-1 facilities and practices. The following modification was made to secure approval: Updated the IACUC information.
Status: Approved

Short Title: Adeno-associated viral (AAV) gene insertion to manipulate neural activity during drug craving and social behaviors
Investigator: Marco Venniro
ID: IBC-00006148
Analyst: John O'Neill
VA-Related: No
Discussion: This modification involves the use of AAV in animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-4-a and is approved using ABSL-1 facilities and practices. The following modification was made to secure approval: Explicitly added DREADD to the genes of interest.
Status: Approved

8 Non-Exempt Protocols with Periodic Reviews

Short Title: IBC Submission: Malaria CVD 35000; BNT165-02
Investigator: Matthew Laurens
ID: IBC-00007459
Analyst: Holda Ramos
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Inhibition of Pim kinases in acute myeloid leukemia
Investigator: Maria Baer
ID: IBC-00002772
Analyst: John O'Neill
VA-Related: Yes
Discussion: There have been no substantive changes to this protocol submission.

Short Title: The role of Semaphorin 4D in bone metastasis
Investigator: John Basile

ID: IBC-00001762
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Targeting the Activator Protein-1 Complex to Inhibit Airway Smooth Muscle Cell Hyperproliferation in Asthma
Investigator: Paul Shapiro
ID: IBC-00005259
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Colon cancer cell line growth and transfection
Investigator: Thomas Blanchard
ID: IBC-00003424
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Epigenetic and molecular signatures specific to transplantation and ex vivo perfusion
Investigator: Valeria Mas
ID: IBC-00005933
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.
Motion:Approve the Periodic Review

Short Title: Protein Production and Biophysics Section of CBT
Investigator: David Weber
ID: IBC-00003807
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Molecular mechanism of host immune response
Investigator: Greg Snyder
ID: IBC-00004076
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Endoplasmic Reticulum Mediated Neuroprotection in Neonatal Hypoxia Ischemia
Investigator: Jaylyn Waddell
ID: IBC-00006431
Analyst: Holda Ramos
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Muscarinic receptors regulate intestinal beta-catenin signaling
Investigator: Jean-Pierre Raufman
ID: IBC-00002057
Reviewer(s): No Reviewer assigned for the current review cycle.
Analyst: John O'Neill
VA-Related: Yes
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Engineering adenoviral vectors as vaccines for infectious disease
Investigator: Lynda Coughlan
ID: IBC-00005922
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification has been administratively approved for the use of non-recombinant infectious agents *in vitro* using BSL-2 facilities and practices.

Short Title: Lipid A modification of Gram-negative bacteria
Investigator: Robert Ernst
ID: IBC-00000053
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification has been administratively approved for changes in personnel editing permissions.

Short Title: STRUCTURAL AND FUNCTIONAL INVESTIGATIONS OF PROTEINS AND COMPLEXES
Investigator: Syed Saif Hasan
ID: IBC-00004974
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for a change in personnel.

Short Title: Proteolytic Pathways in Venous Thrombus Resolution
Investigator: Toni Antalis
ID: IBC-00000479
Analyst: John O'Neill

VA-Related: Yes
Discussion: This modification has been administratively approved for a change in laboratory location.

Short Title: Cellular and Molecular Mechanisms of chronic pain conditions and their treatments in rodents
Investigator: Feng Wei
ID: IBC-00001902
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved to changes to the title, abstracts, experimental design, animal-use protocols, laboratory locations, and the removal of two recombinant DNA entries. Please note that no recombinant DNA work was added in this modification.

Short Title: Cloning and characterization of immune genes from non-mammalian species
Investigator: Helen Dooley
ID: IBC-00003926
Analyst: Holda Ramos
VA-Related: No
Discussion: This protocol has been administratively approved for changes in personnel.

Short Title: Cloning and characterization of immune genes from non-mammalian species
Investigator: Helen Dooley
ID: IBC-00003926
Analyst: Holda Ramos
VA-Related: No
Discussion: This protocol has been administratively approved for changes in personnel.

Short Title: Effects of early alcohol exposure on brain development
Investigator: Alexandre Medina de Jesus
ID: IBC-00001979
Analyst: John O'Neill
VA-Related: Yes
Discussion: This modification has been administratively approved for a change in funding source.

Short Title: Translational Laboratory Shared Service (TLSS)
Investigator: Rena Lapidus
ID: IBC-00001298
Analyst: John O'Neill
VA-Related: No

Discussion:	This modification has been administratively approved for updates to personnel and biosafety cabinet certification dates.

Short Title:	Therapeutic modulation of comorbid pain conditions
Investigator:	Richard Traub
ID:	IBC-00008261
Analyst:	Holda Ramos
VA-Related:	No
Discussion:	This modification has been administratively approved for changes in personnel.