

**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

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## 6 Modification Discussions

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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)

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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

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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)

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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

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## **7 RMSA Follow Up**

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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

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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

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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

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## **8 Non-Exempt Protocols with Periodic Reviews**

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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.

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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.

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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.

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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.

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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.

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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

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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

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

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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.

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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.

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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.

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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.

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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.

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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.