

Institutional Biosafety Committee

June 5, 2026

12:00PM – 12:40PM

Teleconference

Minutes

Voting Members Present: Brian Taylor, Marianne Cloeren, Karen Scanlon, Alan Schmaljohn, Ron McNeil, Jennifer Johnson, John O'Neill, Irina Luzina, Janna Barcelo, Robert Ernst, Ciaran Skerry, Matthew Fischer

Voting Members Absent: Ami A. Patel, Melissa Morland, Elizabeth Bramhall, Anthony Kim, 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 5/1/2026

Votes to approve minutes: 10, Disapprove: 0, Abstain: 0

2 New Business

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

- A replacement US Government policy for Dual Use Research of Concern (or "Dangerous Gain of Function") is expected any day.
- Our next meeting is scheduled for Friday, July 10th. This is the second Friday of the month to avoid the campus closure on July 3rd.
- Member issues
 - Registration is open for the ChABSA symposium on June 10th at Universities at Shady Grove.

3 Reportable Incidents

- No reportable incidents occurred this month.

4 New IBC Submissions

Short Title: IBC: 2630GCCC: Eval Efficacy of KITE-753 vs. Axicabtagene Ciloleucel in Pts. w/ RR LBCL after First-Line Therapy

Investigator: Jean Yared

ID: IBC-00008857

Analyst: John O'Neill

VA-Related: No

Discussion: This protocol involves the use of lentiviral transduced cells in the human cell donor. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-C-1 and is approved using universal precautions.

Motion: Approved

Vote: For: 10, Against: 0, Abstained: 0, Recused: 0

Short Title: Translation Rewiring Underlines Drug Resistance to Lethal Targeted Ribosome Biogenesis Therapeutics in Cancer

Investigator: Wenjun Fan

ID: IBC-00008839

Analyst: Holda Ramos

VA-Related: No

Discussion: This protocol involves the use of plasmids and CRISPR technology in mammalian cells which will be used in animals. This work is classified by the NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules as III-D-4-b using BSL-2 and ABSL-2 facilities and practices. The following modifications are required to secure approval: 1) Include IACUC information, 2) Add origin of Cas9 gene expressed, 3) Clarify cell lines that will be used, 4) Update the NIH guidelines the work is applicable to, and 5) Update the word "standard" in the risk assessment to "BSL-2."

Motion: RMSA

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

5 Modification Discussions

Short Title: Role of Immune system on Tumor antigens

Investigator: Anirban Banerjee

ID: IBC-00005821

Analyst: John O'Neill

VA-Related: Yes

Discussion: This modification involves the use of previously transduced human and murine cells in animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-1-a using ABSL-2 facilities and practices for work with human cells and ABSL-1 facilities and practices for work with murine cells. This modification also involves the use of lentivirus in human cells *in vitro*. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-1-a using BSL-2 facilities and practices with sharps precautions. The following modification is required to secure approval: Please add "eosinophils" to the cell list in table entry ID23056 on the Recombinant DNA Questions page.

Motion: RMSA

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

Short Title: Engineering Plasmodium parasites to study malaria biology and host responses

Investigator: Hardik Patel

ID: IBC-00008704
Analyst: John O'Neill
VA-Related: No
Discussion: This modification involves the use of plasmids in *Plasmodium yoelii* and *Plasmodium berghei*, 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-1-a and is approved using BSL-1/ABSL-1 facilities and practices.
Motion: Approve the Modification
Vote: For: 12, Against: 0, Abstained: 0, Recused: 0

Short Title: Dissecting Neural Circuits of Learning and Emotion
Investigator: Barbara Juarez
ID: IBC-00007058
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification involves the use of plasmids 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: 12, Against: 0, Abstained: 0, Recused: 0

Short Title: White matter repair by transplanted glial progenitors guided by multimodality imaging
Investigator: Piotr Walczak
ID: IBC-00007091
Analyst: John O'Neill
VA-Related: No
Discussion: This modification involves the use of plasmids in human and 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-b and is approved using ABSL-2 facilities and practices for work with human cells and III-D-4-a using ABSL-1 facilities and practices for work with murine cells.
Motion: Approve the Modification
Vote: For: 12, Against: 0, Abstained: 0, Recused: 0

Short Title: Stem cell therapy for brain injury and peripheral nerve injury
Investigator: Xiaofeng Jia
ID: IBC-00002658
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification involves the use of lentivirus in human 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-1-a using ABSL-2 facilities and practices with sharps

precautions. This modification also 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: 12, Against: 0, Abstained: 0, Recused: 0

Short Title: Identification of novel targets for the treatment of chemotherapy-induced painful peripheral neuropathy

Investigator: Ohannes Melemedjian

ID: IBC-00005540

Analyst: John O'Neill

VA-Related: No

Discussion: This modification involves the use of a lentiviral vector in animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-4-b and is approved using ABSL-2 facilities and practices with sharps precautions. This modification also involves the use of siRNA in animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-F-1 and is approved using ABSL-1 facilities and practices.

Motion: Approve the Modification

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

Short Title: Channelrhodopsin based stimulation of CNS neurons

Investigator: Nathan Cramer

ID: IBC-00001191

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.

Motion: Approve the Modification

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

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 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: 12, Against: 0, Abstained: 0, Recused: 0

Short Title: Gut Microbiome in Immune Tolerance
Investigator: Mustafa Ozcam
ID: IBC-00008456
Analyst: John O'Neill
VA-Related: No
Discussion: This modification involves the use of recombinant *Enterococcus faecalis* in animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-4-b and is approved using ABSL-2 facilities and practices.
Motion: Approve the Modification
Vote: For: 12, Against: 0, Abstained: 0, Recused: 0

Short Title: Virus construct use in mouse
Investigator: Adam Puche
ID: IBC-00001487
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 using ABSL-1 facilities and practices. The following modifications are required to secure approval: 1) Update personnel and 2) Update IACUC information.
Motion: RMSA
Vote: For: 12, Against: 0, Abstained: 0, Recused: 0

6 RMSA Follow-Up

Short Title: Bone marrow transplant based leukemia models
Investigator: Aaron Stonestrom
ID: IBC-00008815
Analyst: Holda Ramos
VA-Related: No
Discussion: This protocol involves the use of lentiviral constructs 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-1-a and is approved using BSL-1/ABSL-2 facilities and practices with sharps precautions. The following modifications were made to secure approval: 1) Updated personnel information 2) Added information on fluorescent molecules, 3) Updated sharps safety precautions, and 4) Revised the bloodborne pathogens section.
Status: Approved

7 Periodic Reviews of Protocols with Recombinant or Synthetic Nucleic Acid Moledules

Short Title: Recombinant Hemoprotein Creation and Testing
Investigator: Jason Rose

ID: IBC-00006979
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: IBC Submission: i-LIVER
Investigator: Lydia Tang
ID: IBC-00007631
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Intracerebroventricular AAV treatment in TBI
Investigator: Prajwal Ciryam
ID: IBC-00008307
Analyst: John O'Neill
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
Analyst: John O'Neill
VA-Related: Yes
Discussion: There have been no substantive changes to this protocol submission.

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: 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: Role of trkB in Descending Pain Modulation
Investigator: Susan Dorsey
ID: IBC-00001192
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Regulation of myosin phosphorylation in fibroblasts

Investigator: Megan Rizzo
ID: IBC-00003036
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Opioid withdrawal and depression comorbidity
Investigator: Gregory Elmer
ID: IBC-00006937
Analyst: Holda Ramos
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: Proteolytic Pathways in Venous Thrombus Resolution
Investigator: Toni Antalis
ID: IBC-00000479
Analyst: John O'Neill
VA-Related: Yes
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Signal Nodal Targeting in Defined Models of Human Prostate Cancer
Investigator: Arif Hussain
ID: IBC-00007207
Analyst: Holda Ramos
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Chemopotential by Low Dose Fractionated Radiation Therapy for disseminated intra-abdominal cancers
Investigator: France Carrier
ID: IBC-00004044
Analyst: Holda Ramos
VA-Related: Yes
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Co-transplantation of MMP-9 enhanced Mesenchymal Stem Cells and Pancreatic Islets for the Treatment of Type 1 Diabetes
Investigator: Raphael Meier
ID: IBC-00007965
Analyst: Holda Ramos

VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Understanding the development of human influenza-specific memory B cells following immunization
Investigator: Franklin Toapanta
ID: IBC-00002573
Analyst: Holda Ramos
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Neural mechanisms of allergic symptoms in rhinosinusitis
Investigator: PANG-YEN TSENG
ID: IBC-00007547
Analyst: John O'Neill
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: Study of Glucokinase Function in Pancreatic Beta Cells
Investigator: Megan Rizzo
ID: IBC-00001431
Analyst: Holda Ramos
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Recombinant Anthrax Toxin Studies
Investigator: Bryan Krantz
ID: IBC-00002947
Analyst: Holda Ramos
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Effects of Maternal Particulate Matter Exposure
Investigator: Zhekang Ying
ID: IBC-00008206
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Immunopathogenesis of Infectious Diseases

Investigator: Joao Pedra
ID: IBC-00002247
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for a change in personnel.

Short Title: Evolution of pathogenic Escherichia coli and Shigella
Investigator: David Rasko
ID: IBC-00000484
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for a change in personnel.

Short Title: IBC: Horizon Open-Label Extension
Investigator: Alex Gyftopoulos
ID: IBC-00008856
Analyst: John O'Neill
VA-Related: No
Discussion: This protocol has been administratively approved for the use of an antisense oligonucleotide, less than 100 nucleotides, in humans. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-F-1 and is approved using universal precautions.

Short Title: Gut Microbiome in Immune Tolerance
Investigator: Mustafa Ozcam
ID: IBC-00008456
Analyst: John O'Neill
VA-Related: No
Discussion: There have been no substantive changes to this protocol submission.

Short Title: Targeting the ERK1/2 signaling pathway in cancer and inflammatory disorders.
Investigator: Paul Shapiro
ID: IBC-00005259
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for the use of plasmids in human and murine cells and *E. coli*. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-F-1 Appendix C-1 using BSL-2 facilities and practices for work with human cells and BSL-1 facilities and practices for work with murine cells and *E. coli*. *In vivo* work will occur under IBC-1298.

Short Title: Translational Laboratory Shared Service (TLSS)
Investigator: Rena Lapidus
ID: IBC-00001298
Analyst: Holda Ramos
VA-Related: No

Discussion: This modification has been administratively approved to include cells known to be infected with hepatitis C using BSL-2 and ABSL-2 facility and practices.

Short Title: Shigella Vaccine Development
Investigator: Eileen M. Barry
ID: IBC-00000269
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for work with *Klebsiella pneumoniae* using BSL-2 facilities and practices.

Short Title: Genetic studies of hearing and vision impairment
Investigator: Saima Riazuddin
ID: IBC-00002828
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for changes in personnel.

Short Title: Animal models with increased RBC turnover
Investigator: Elizabeth Rochon
ID: IBC-00006924
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification has been administratively approved for changes in personnel.

Short Title: Internal dynamics of the postsynaptic density
Investigator: Thomas Blanpied
ID: IBC-00000190
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for a change in personnel.

Short Title: Engineering Plasmodium parasites to study malaria biology and host responses
Investigator: Hardik Patel
ID: IBC-00008704
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for a change in personnel.

Short Title: Novel mechanisms and interventions of vascular remodeling in lung injury
Investigator: Kelly Schweitzer
ID: IBC-00008530
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification has been administratively approved for a change in personnel.

Short Title: Viral vectors for brain circuits of reward and aversion

Investigator: Thomas Jhou
ID: IBC-00007284
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification has been administratively approved for changes in personnel and clarification of genes variants.

Short Title: Automated Stem Cell Radiolabeling via 3D Microprinting-Enabled Microfluidics
Investigator: Mirosław Janowski
ID: IBC-00005346
Analyst: Holda Ramos
VA-Related: Yes
Discussion: This modification has been administratively approved for the use of CAR-T cells *in vitro*.

Short Title: Cellular Immunotherapy/Immunomonitoring
Investigator: Tim Luetkens
ID: IBC-00006040
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification has been administratively approved for changes in personnel.

Short Title: Evolution of pathogenic *Aeromonas* species
Investigator: David Rasko
ID: IBC-00007713
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for a change in personnel.

Short Title: Virotherapy for vaccine and oncology applications
Investigator: Bolni Nagalo
ID: IBC-00008432
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification has been administratively approved for changes in personnel.

Short Title: Immunopathogenesis of Infectious Diseases
Investigator: Joao Pedra
ID: IBC-00002247
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification has been administratively approved for updates in personnel.

Short Title: Recombinant Hemoprotein Creation and Testing
Investigator: Jason Rose
ID: IBC-00006979
Analyst: John O'Neill
VA-Related: No

Discussion: This modification has been administratively approved for a change in personnel.

Short Title: Engineering adenoviral vectors as vaccines for infectious disease
Investigator: Lynda Coughlan
ID: IBC-00005922
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for changes in personnel.

Short Title: Novel mechanisms and interventions of vascular remodeling in lung injury
Investigator: Kelly Schweitzer
ID: IBC-00008530
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for a change in personnel.

Short Title: Comprehensive Analysis of Polycystin Related Endothelial Cell Signaling Pathways
Investigator: Terry Watnick
ID: IBC-00002098
Analyst: Holda Ramos
VA-Related: No
Discussion: This modification has been administratively approved for changes in personnel and update of biosafety cabinet certification dates.

Short Title: Intraperitoneal Photodynamic Therapy and Chemotherapy for Peritoneal Carcinomatosis
Investigator: Benjamin Powers
ID: IBC-00008230
Analyst: Holda Ramos
VA-Related: No
Discussion: This protocol has been administratively approved for changes in personnel.

Short Title: Stem cell therapy for brain injury and peripheral nerve injury
Investigator: Xiaofeng Jia
ID: IBC-00002658
Analyst: John O'Neill
VA-Related: No
Discussion: This modification has been administratively approved for a change in personnel.