

**Institutional Biosafety Committee**

**11/7/2025, 12:00PM – 12:55PM**

**Teleconference**

## **Minutes**

**Voting Members Present:** Brian Taylor, Ami A. Patel, Karen Scanlon, Ron McNeil, Elizabeth Bramhall, J. Kristie Johnson, John O'Neill, Irina Luzina, Matthew Frieman, Robert Ernst, Ciaran Skerry, Matthew Fischer

**Voting Members Absent:** Marianne Cloeren, Alan Schmaljohn, Melissa Morland, Anthony Kim, Theresa Marth, Joseph Gillespie, Sammy Almashat, 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 10/06/2025

Votes to approve minutes: 9, 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).

- Our 2026 calendar is available at <https://www.umaryland.edu/ehs/research-registration/institutional-biosafety-committee-ibc/ibc-calendar/>. Briefly, meetings will be the first Friday of the month except January, April, July, and September due to holidays. In those months, meetings will be on the second Friday.
- CICERO non-affiliate accounts are migrating over to community IDs.
- At the ABSA conference, UMB's Melissa Morland was honored with the Arnold Wedum Award and the biosafety team won the award for biosafety month celebrations.
- 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, December 5<sup>th</sup>
- Member issues
  - ChABSA has a dinner meeting on November 12th in Ellicott City entitled "Rate of Errors During Routine Biological Manipulation"

### **3 Reportable Incidents**

- No reportable events occurred this month.

### **4 Select Agent Program Oversight**

- The annual select agent exercise was held on October 22nd.

## **5 New IBC Submissions**

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Short Title: AAV-mediated modulation of neuronal activity related to spatial navigation in mice  
Investigator: Emily Aery Jones  
ID: IBC-00008579  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This protocol 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: Approved  
Vote: For: 10, Against: 0, Abstained: 0, Recused: 0

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Short Title: Testing the role of neuromodulation in stress-related disorders  
Investigator: Tanner Francis  
ID: IBC-00008544  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This protocol 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: Approved  
Vote: For: 10, Against: 0, Abstained: 0, Recused: 0

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## **6 Modification Discussions**

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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  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification involves the addition of new AAV constructs 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.  
Motion: Approve the Modification  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Role of extracellular RNA and complement factor B in sepsis, cardiac ischemia reperfusion and polytrauma model  
Investigator: Wei Chao  
ID: IBC-00003470

Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification involves the use of adenoviral vectors 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. The following modifications are required to secure approval: 1) Acknowledge that tat is derived from HIV and 2) Describe the stability of adenovirus in the environment.  
Motion: RMSA  
Vote: For: 12, Against: 0, Abstained: 0, Recused: 0

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Short Title: Utilizing Targeted Therapies to treat orthotopic Prostate Tumors in a mouse and rat Model  
Investigator: Hem Shukla  
ID: IBC-00003860  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification involves the use of previously transduced rodent cells 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 modification is required to secure approval: Update the training and procedure details for the newly added person.  
Motion: RMSA  
Vote: For: 12, 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: Holda Ramos  
VA-Related: No  
Discussion: This modification includes mutations in additional genes of interest from the OC43 genome using a plasmid to encode an infectious clone and then subsequent use of the recombinant OC43 in cell culture. It has also been modified to include new strains of influenza. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-2-a and III-D-3-a and is approved using BSL-2 facilities and practices.  
Motion: Approve the Modification  
Vote: For: 10, Against: 0, Abstained, Recused: 2 (Matthew Frieman, Robert Ernst)

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Short Title: Mechanisms of fate determination in peripheral T cells  
Investigator: Nevil Singh  
ID: IBC-00002339  
Analyst: John O'Neill

VA-Related: No  
Discussion: This modification involves the use of replication incompetent Murine Stem Cell Virus in murine cells 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 BSL-1/ABSL-1 facilities and practices. The following modifications are required to secure approval: 1) Confirm/update personnel; 2) Remove expired animal-use protocol information; and 3) Explicitly include MSCV in the risk assessment responses.  
Motion: RMSA  
Vote: For: 12, Against: 0, Abstained: 0, Recused: 0

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Short Title: Molecular Mechanisms of Hormone-independence of prostate cancer  
Investigator: Yun Qiu  
ID: IBC-00000447  
Analyst: Holda Ramos  
VA-Related: Yes  
Discussion: This modification involves the addition of lentiviral constructs and plasmids used in cells. 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 ABSL-2 facilities and practices with sharps precautions.  
Motion: Approve the Modification  
Vote: For: 12, Against: 0, Abstained: 0, Recused: 0

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Short Title: Rational targeting of protein translation for cancer treatments  
Investigator: France Carrier  
ID: IBC-00002549  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification involves the addition of recombinant cell lines 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 A-BSL-2 facilities and practices. The following modification is required to secure approval: Include more detail in the origin section than just the vendor name.  
Motion: RMSA  
Vote: For: 12, Against: 0, Abstained: 0, Recused: 0

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## **7 RMSA Follow-Up**

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Short Title: In vitro and In vivo analysis of the MERS Coronavirus  
Investigator: Matthew Frieman  
ID: IBC-00002089  
Analyst: John O'Neill  
VA-Related: No

Discussion: This modification involves an additional wild-type MERS-CoV strain which will be used in animals and is approved using ABSL-3 facilities and practices. The following modifications were made to secure approval: 1) The past statement about a strain to be acquired was removed as it was never received and 2) the biosafety cabinet certification date has been updated.

Status: Approved

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Short Title: Mechanism of Rickettsia-Host-interaction (BSL-2)

Investigator: Mohammed Rahman

ID: IBC-00007650

Analyst: Holda Ramos

VA-Related: No

Discussion: This modification involves the addition of previously transposed *R. parkeri* mutants in animals. They also added a new gene of interest to all previously approved work in the rDNA table. 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-2 and ABSL-2 facilities and practices. The following modifications were made to secure approval: 1) Updated IACUC protocol number, 2) Clarified the use of antibiotic resistance, and 3) Updated BSC certification date.

Status: Approved

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Short Title: Molecular Drivers of Pulmonary Vascular Remodeling in PH-HFpEF

Investigator: Yen-Chun (Charly) Lai

ID: IBC-00008473

Analyst: John O'Neill

VA-Related: No

Discussion: This protocol 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. This protocol also involves the use of plasmids and siRNA in human cells. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-F-8 Appendix C-1 and III-F-1, respectively, and is approved using BSL-2 facilities and practices. The following modifications were made to secure approval: 1) The Lay Abstract has been re-written for non-scientists; 2) Scrambled control AAV constructs have been added; 3) Clarified AAV constructs for the expression or knock down of genes; 4) The fact that CAT2 and hSLC7A2 are the same gene has been confirmed; 5) Added fluorescent molecule under genes to be expressed; 6) The NIH Guideline for the use of siRNA has been corrected to III-F-1; and 7) The typo of the word "human" has been corrected.

Status: Approved

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Short Title: Labeling glioma or neural stem cells with fluorescent reporters for multiplex single cell tracking

Investigator: Yajie Liang  
ID: IBC-00006162  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification involves the use of murine retroviral vectors in mammalian cells. This work is classified by the NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules as III-D-1-a and is approved using BSL-2 and A-BSL-2 facility and practices. The following modifications were made to secure approval: 1) Elaborated in the experimental design, 2) Added discussion of the tropism of the vector, and 3) Removed superfluous entry in the lentivirus table.  
Status: Approved

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Short Title: ProSAAS-mediated neuroprotective mechanisms in Alzheimer's and Parkinson's diseases  
Investigator: Iris Lindberg  
ID: IBC-00004821  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification involves the addition of a lentivirus and AAV in animals. This work is classified by the NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules as III-D-1-a and is approved using BSL-2 and ABL-2 facilities and practices. The following modification was made to secure approval: Updated the IACUC number.  
Status: Approved

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Short Title: Gut Microbiome in Immune Tolerance  
Investigator: Mustafa Ozcam  
ID: IBC-00008456  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This protocol involves the use of plasmids in K12 *E. coli* and *Limosilactobacillus reuteri*, 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 and is approved using BSL-1/ABSL-1 facilities and practices. The following modifications were made to secure approval: 1) Provided more detail under procedures to be performed and qualifications and training of Principal Investigator; 2) Elaborated on the animal portion of the study and how it relates to the overexpression of the gene of interest in *L. reuteri*; 3) Acknowledged that replication competent *L. reuteri* may be transmitted horizontally; and 4) Added a statement for the collection and disposal of animal bedding when working at UMB.  
Status: Approved

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Short Title: Molecular Imaging Mouse

Investigator: Vikas Kundra  
 ID: IBC-00006585  
 Analyst: Holda Ramos  
 VA-Related: No  
 Discussion: This protocol was previously approved for work with AAV, retrovirus, and lentivirus vectors *in vitro*, and plasmids *in vitro* and *in vivo*. It has been modified to include all the work being done *in vivo* and *in vitro*, and the addition of new cell lines. 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 procedure rooms.  
 Status: Approved

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## 7 Non-Exempt Protocols with Periodic Reviews

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Short Title: Candida albicans-Staphylococcus aureus Mixed-Species Biofilms  
 Investigator: Janette Harro  
 ID: IBC-00000172  
 Analyst: John O'Neill  
 VA-Related: No  
 Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Role of Lipid metabolic signatures in induced pluripotent stem cell derived AD neurons.  
 Investigator: Robin Roychaudhuri  
 ID: IBC-00008072  
 Analyst: John O'Neill  
 VA-Related: No  
 Discussion: There have been no substantive changes to this protocol submission.

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Short Title: optogenetic and chemogenetic stimulation  
 Investigator: Todd Gould  
 ID: IBC-00003451  
 Analyst: John O'Neill  
 VA-Related: Yes  
 Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Biofilm Studies  
 Investigator: Janette Harro  
 ID: IBC-00000040  
 Analyst: John O'Neill  
 VA-Related: No  
 Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Fish immune response to *M. marinum* infection and genetic analysis of fish muscle development and disease  
Investigator: Shaojun Du  
ID: IBC-00001186  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: IBC Submission: 2320GCCC: Expanded Access Study for the Treatment of Patients with Commercially OOS Brexucabtagene Autoleucel  
Investigator: Aaron Rapoport  
ID: IBC-00007195  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: IBC: 2478GCCC: A Phase 2 of Olvi-Vec + Pembrolizumab Compared with Docetaxel in Patients w/ NSCLC  
Investigator: Samuel Rosner  
ID: IBC-00008080  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: IBC: 2325GCCC: Expanded Access Study for the Treatment of Patients with Commercially Out-of-Specification Axicabtagene Ciloleucel  
Investigator: Aaron Rapoport  
ID: IBC-00007238  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Surgical Studies of Gut Permeability  
Investigator: Jian-Ying Wang  
ID: IBC-00000072  
Analyst: Holda Ramos  
VA-Related: Yes  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Validating ASCT2 for the Treatment of Chronic Postsurgical Pain  
Investigator: Ohannes Melemedjian  
ID: IBC-00005906



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

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Short Title: Protein NEDD9 in pulmonary arterial hypertension  
Investigator: Bradley Maron  
ID: IBC-00007440  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Inhibition of Innate Immune Signaling by SARS, MERS, HKU4 and HKU5 Coronavirus Proteins  
Investigator: Matthew Frieman  
ID: IBC-00000315  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Examining the role of micro-RNAs in inflammation  
Investigator: Kamal Moudgil  
ID: IBC-00004429  
Analyst: Holda Ramos  
VA-Related: Yes  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: IBC: 2493GCCC: Autologous SCG142 TCR-T Cell Therapy in Patients with Advanced or Metastatic HPV16- or HPV52-positive Carcinomas  
Investigator: Raneer Mehra  
ID: IBC-00008096  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Analysis of Animal Viromes  
Investigator: Matthew Frieman  
ID: IBC-00001349  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: White matter repair by transplanted glial progenitors guided by multimodality imaging

Investigator: Piotr Walczak  
ID: IBC-00007091  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Blood Flow in Learning and Memory  
Investigator: Thomas Longden  
ID: IBC-00005260  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: HIV-1 mediated Pathophysiology  
Investigator: Chozha Rathinam  
ID: IBC-00003929  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: IBC Submission: RPower-HCC RP2-003 GCCC2350  
Investigator: Hyun Kim  
ID: IBC-00007348  
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 microtentacles on circulating breast tumor cells to reduce metastasis.  
Investigator: Stuart Martin  
ID: IBC-00000475  
Analyst: John O'Neill  
VA-Related: Yes  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Epigenetic regulation in prostate cancer progression and therapeutic resistance of prostate cancer  
Investigator: Jianfei Qi  
ID: IBC-00002354  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Biofilm studies  
Investigator: Mary Ann Rizk  
ID: IBC-00000578  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Modulation of autoimmune processes by alteration of miRNA levels in vivo in rodent models and in vitro  
Investigator: Kamal Moudgil  
ID: IBC-00006038  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Intestinal Mucosal Growth in Health & Surgical Diseases  
Investigator: Jian-Ying Wang  
ID: IBC-00004027  
Analyst: John O'Neill  
VA-Related: Yes  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: IBC: 2394GCCC: VX0120 / Phase 1 Study of Intratumoral Administration of VAX014 in Subjects with Advanced Solid Tumors  
Investigator: Katherine Tkaczuk  
ID: IBC-00007606  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Primary Chondrocyte Immortalization for Drug Screening  
Investigator: Stephanie Jo  
ID: IBC-00007694  
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 and neural circuit basis of craniofacial pain  
Investigator: Man-Kyo Chung  
ID: IBC-00001592  
Analyst: Holda Ramos  
VA-Related: No

Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Mucosal Repair in Gut Surgical Disorders

Investigator: Jian-Ying Wang

ID: IBC-00000087

Analyst: Holda Ramos

VA-Related: Yes

Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Role of RGC-32 in gliosis

Investigator: Horea Rus

ID: IBC-00002541

Analyst: Holda Ramos

VA-Related: Yes

Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Blood Flow in Learning and Memory

Investigator: Thomas Longden

ID: IBC-00005260

Analyst: Holda Ramos

VA-Related: No

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

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Short Title: Vascular signaling plasticity

Investigator: Thomas Longden

ID: IBC-00006386

Analyst: Holda Ramos

VA-Related: No

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

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Short Title: Determine the efficacy of morpholino oligonucleotides in a rodent models of myotonic dystrophy

Investigator: Joseph P Stains

ID: IBC-00006467

Analyst: Holda Ramos

VA-Related: No

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

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Short Title: Gut Microbiome in Immune Tolerance

Investigator: Mustafa Ozcam

ID: IBC-00008456

Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification has been administratively approved for the potential exposure to bloodborne pathogens using BSL-2/ABSL-2 facilities and practices..

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Short Title: Role of pertussis toxin in Bordetella pertussis infection  
Investigator: Nicholas Carbonetti  
ID: IBC-00000427  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification 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 administratively approved using ABSL-1 facilities and practices.

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Short Title: Autoimmune Regulation of Synapse Structure and Function  
Investigator: David Benavides  
ID: IBC-00004135  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification has been administratively approved for changes in personnel.

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Short Title: Long-term Inhibition of HIV transcription by targeting cellular CDK9 in vivo  
Investigator: Alonso Heredia  
ID: IBC-00003501  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification has been administratively approved for the use of an mRNA vaccine 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.

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Short Title: HK Delivery of Nucleic Acids  
Investigator: Archibald Mixson  
ID: IBC-00001842  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification involves the use of siRNA in murine cells and animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-F-1 using BSL-1/ABSL-1 facilities and practices.

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Short Title: Ultrasound-Mediated Microbubble Coupled Plasmid sFlt-1 or VEGF Gene Delivery in the Pregnant Baboon and offspring.  
Investigator: Graham Aberdeen

ID: IBC-00001512  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: White matter repair by transplanted glial progenitors guided by multimodality imaging  
Investigator: Piotr Walczak  
ID: IBC-00007091  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification has been administratively approved for changes in personnel.

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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 the addition of primary human cells which will be used in animals using ABSL-2 facilities and practices.

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Short Title: Iron homeostasis of bacterial pathogens  
Investigator: Amanda Oglesby  
ID: IBC-00001885  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification 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: John O'Neill  
VA-Related: No  
Discussion: This modification has been administratively approved for changes in personnel.

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Short Title: DNA library production and delivery for manipulation and labeling of neurons in the rodent brain  
Investigator: Alexandros Pouloupoulos  
ID: IBC-00004060  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification has been administratively approved for the use of plasmids in animal cells *in vitro*. This work is classified by the NIH Guidelines for Research with

Recombinant or Synthetic Nucleic Acids as III-F-8 Appendix C1 and is approved using BSL-2 facilities and practices.

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Short Title: Anti-Cancer Therapies  
Investigator: Joseph P Stains  
ID: IBC-00006568  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification has been administratively approved for updates to biosafety cabinets certification dates.

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Short Title: Iron homeostasis of environmental Pseudomonads  
Investigator: Amanda Oglesby  
ID: IBC-00004194  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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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 updates to personnel and biosafety cabinet certification dates.

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Short Title: Microbiome studies of de-identified samples  
Investigator: Jacques Ravel  
ID: IBC-00000989  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification has been administratively approved for updates to rooms numbers.

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Short Title: Calcium Imaging in Cell Culture  
Investigator: David Benavides  
ID: IBC-00004420  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification has been administratively approved for changes in personnel.

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Short Title: Role of Immune system on Tumor antigens  
Investigator: Anirban Banerjee

ID:	IBC-00005821
Analyst:	John O'Neill
VA-Related:	No
Discussion:	This modification has been administratively approved for changes in personnel.
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Short Title:	ProSAAS-mediated neuroprotective mechanisms in Alzheimer's and Parkinson's diseases
Investigator:	Iris Lindberg
ID:	IBC-00004821
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:	Novel Therapies for Improved Muscle Growth and Function
Investigator:	Joseph P Stains
ID:	IBC-00004286
Analyst:	John O'Neill
VA-Related:	No
Discussion:	This modification has been administratively approved for updating the biosafety cabinet certification date.
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Short Title:	Blood Flow Control in Heart
Investigator:	W. Jonathan Lederer
ID:	IBC-00008572
Analyst:	John O'Neill
VA-Related:	No
Discussion:	Due to a technical issue, IBC-7574 became uneditable. This protocol is an exact copy and replacement of IBC-7574, and it has been administratively approved for the use of AAV in animals using ABSL-1 facilities and practices.
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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 updates to <i>in vivo</i> procedures and biosafety cabinet certification dates.