

**Institutional Biosafety Committee**

**April 10, 2026**

**12:00PM – 1:00PM**

**Teleconference**

**Minutes**

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

**Voting Members Absent:** Brian Taylor, Ron McNeil, Melissa Morland, Anthony Kim, Joseph Gillespie, Sherry Bohn, Ciaran Skerry, Jessie Duggan, Alfredo Garzino-Demo

**Other Person(s) Present:** Edward Case

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

**1 Vote on Last Meeting's Minutes**

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Institutional Biosafety Committee meeting on 3/6/2026

Votes to approve minutes: 11, Disapprove: 0, Abstain: 0

**2 New Business**

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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, May 1<sup>st</sup>.
- Member issues
  - ASM Maryland will have a meeting on April 14<sup>th</sup> in Towson entitled "Why Do Pathogens Continue to Emerge and Reemerge? An Update"
  - ChABSA has a virtual meeting on May 14<sup>th</sup> entitled "So Your Training Plan Failed. Now What?"
  - Registration is open for the ChABSA symposium on June 10<sup>th</sup> at Universities at Shady Grove.

**3 Select Agent Program Oversight**

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- Our inspection report was received and no response was needed. It is now closed out and we can expect renewal of our registration for another 3-year term.

**4 Reportable Incidents**

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- No reportable incidents occurred this month.

## **5 New IBC Submissions**

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Short Title: IBC: DMID 24-1102; Coronavirus CVD 16000  
Investigator: Karen Kotloff  
ID: IBC-00008765  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This protocol involves the use of an adenoviral-based vaccine in healthy human volunteers. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-C-1 and is approved using BSL-2 and universal precautions.  
Motion: Approved  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: IBC: DMID 23-0007; Influenza CVD 61000 (HP-00118339)  
Investigator: Meagan Deming  
ID: IBC-00008768  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This protocol involves the use of mRNA in healthy volunteers. This work is classified by the NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules as III-C-1 and is approved using universal precautions.  
Motion: Approved  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Efficacy of Adv.C3.tat-HIV-BoxA to protect in a murine model of CCI-injury  
Investigator: Prajwal Ciryam  
ID: IBC-00008725  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This protocol involves the use of adenoviral vectors in animals. This work is classified by the NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules as III-D-1 using A-BSL-2 facilities and practices. The following modifications are required to secure approval: 1) Remove not applicable information from the protocol, 2) Rewrite abstract, 3) Upload applicable IACUC documents, 4) Clarify origin of genes, and 5) Clarify safety precautions.  
Motion: RMSA  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Luciferase-expressing cancer models  
Investigator: Aditi Banerjee  
ID: IBC-00008754  
Analyst: John O'Neill

VA-Related: No  
Discussion: This protocol involves the use of previously transduced human cells 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 BSL-2/ABSL-2 facilities and practices.  
Motion: Approved  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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## **6 Modification Discussions**

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Short Title: Rational targeting of protein translation for cancer treatments  
Investigator: France Carrier  
ID: IBC-00002549  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification involves the use of previously transduced porcine cells in a new animal species. 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 committee determined that although the proposal is low risk, the IBC protocol did not sufficiently explain the differences in practices and precautions involved with the new animal species.  
Motion: Defer the Modification  
Vote: For: 10, Against: 0, Abstained: 1, Recused: 0

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Short Title: The functional role of Akt on dopamine release  
Investigator: Joseph Cheer  
ID: IBC-00000335  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification involves the use of new AAV constructs 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 and ABSL-1 facilities and practices. The following modifications are required to secure approval: 1) Update personnel and 2) Remove unneeded language.  
Motion: RMSA  
Vote: For: 11, 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: Holda Ramos  
VA-Related: No  
Discussion: This protocol involves the use of AAV in animals using CRISPR technology. 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: Clarify genes of interest.

Motion: Approve the Modification  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Cancer and Angiogenesis in Mice  
Investigator: Toni Antalis  
ID: IBC-00002240  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification involves the use of adenovirus 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-1-a using BSL-2/ABSL-2 facilities and practices. The following modifications are required to secure approval: 1) Add adenovirus to the risk assessment pages and 2) Acknowledge that animal work will occur in a biosafety cabinet.  
Motion: RMSA  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Development and preclinical evaluation of novel therapeutic delivery strategies  
Investigator: Jung Soo Suk  
ID: IBC-00007510  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification involves the addition of new mRNA, cell lines and plasmids used in cells and 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: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Viral vectors for brain circuits of reward and aversion  
Investigator: Thomas Jhou  
ID: IBC-00007284  
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 using ABSL-1 facilities and practices. The following modifications are required to secure approval: 1) Remove the word "typically" from the scientific abstract and 2) Update the animal-use protocol information.  
Motion: RMSA

Vote: For: 11, 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 use of adenovirus in 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. The following modification is required to secure approval: Add adenovirus to the Risk Assessment Questions 1 page.  
Motion: RMSA  
Vote: For: 10, Against: 0, Abstained: 0, Recused: 1 (Matthew Frieman)

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Short Title: Use of genetically engineered porcine organs and tissues  
Investigator: Muhammad Mohiuddin  
ID: IBC-00006063  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification involves the addition of a lentiviral vector which will be used to transduce cells which are then used in animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-D-1 and is approved using BSL-2/ABSL- 2 facilities and practices.  
Motion: Approve the Modification  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Fetal Gene Delivery Using Low-Intensity Focused Ultrasound  
Investigator: Whitney Parker  
ID: IBC-00007792  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification involves the use of AAV, new sgRNA, and plasmids used in cells and 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 and ABSL-1 facilities and practices. It also involves work with recombinant human cells *in vitro*. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-F-8 using BSL- 2 facilities and practices. The following modifications are required to secure approval: 1) Update biosafety level, 2) Add AAV to the risk assessment pages, and 3) Update decontamination methods.  
Motion: RMSA  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Understanding and targeting breast cancer metastasis-initiating circulating tumor cells and niches  
Investigator: Min Yu  
ID: IBC-00007171  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification involves the use of lentiviral vectors 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 and is approved using BSL-2/ABSL-2 facilities and practices with sharps precautions.  
Motion: Approve the Modification  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Molecular and Functional Studies of Depression and Addiction on Brain  
Investigator: Mary Kay Lobo  
ID: IBC-00001687  
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: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Neuroblastoma tumor Imaging by Molecular Imaging  
Investigator: Vikas Kundra  
ID: IBC-00006585  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification involves the use of previously transduced cells 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 using BSL-1 and ABSL-1 facilities and practices. The following modifications are required to secure approval: 1) Update title to be more informative, 2) Correct listed risk group, 3) Clarify source of rDNA, and 4) Add new prophylaxis recommendations.  
Motion: RMSA  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Viral Transduction of Striated Muscle  
Investigator: Robert Bloch  
ID: IBC-00000936

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 using ABSL-1 facilities and practices. The following modifications are required to secure approval: 1) Identify new funding sources; 2) Update animal-use protocol information; and 3) Update language in the risk assessment for lentivirus (previously approved).  
Motion: RMSA  
Vote: For: 11, Against: 0, Abstained: 0, Recused: 0

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Short Title: Xenotransplantation of genetically engineered porcine kidneys in baboons  
Investigator: Raphael Meier  
ID: IBC-00007225  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification involves the use of lentiviral constructs to transduce cells which are then used in animals. This work is classified by the NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules as III-D-1-a using BSL-2 and A-BSL-2 facilities and practices. The following modifications are required to secure approval: 1) Add personnel, 2) Add source of genes, and 3) Update biosafety level of the overall protocol.  
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: Characterizing the axonal transport proteome of the corticospinal tract  
Investigator: Vladimir V. Gerzanich  
ID: IBC-00008693  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This protocol involves the use of AAV 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: Rewrote the lay abstract.  
Status: Approved

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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 involves the use of VSV based vectors in vitro. This work is classified by the NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules as III-D-3-a using BSL-2 facilities and practices. This modification also involves the addition of a new lentivirus which will be used in vitro. 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 facilities and practices. The following modifications were made to secure approval: 1) Updated IACUC information and 2) Included the new vectors in the pre-existing safety language.

Status: Approved

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Short Title: Viral Pathogenesis and Immunotherapy

Investigator: Lishan Su

ID: IBC-00005983

Analyst: Holda Ramos

VA-Related: No

Discussion: This modification involves the addition of a new lentiviral vector that will be used in human cells with CRISPR technology for the purpose of a library. It was also modified to include a new cell line under a previously approved lentiviral vector. 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 facilities and practices. The following modifications were made to secure approval: 1) Updated biosafety cabinet certification dates and 2) Updated the language for lentiviral vector post-exposure prophylactic therapy.

Status: Approved

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## **8 Periodic Reviews of Protocols with Recombinant or Synthetic Nucleic Acid Molecules**

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Short Title: Co-Targeting IL-6 and CDK4/6 Pathways as a Novel Approach of Preventive Therapy for Triple-Negative Breast Cancer

Investigator: Jiayuh Lin

ID: IBC-00006504

Analyst: John O'Neill

VA-Related: Yes

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

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Short Title: M3R, MMP1 and colon cancer dissemination

Investigator: Jean-Pierre Raufman

ID: IBC-00002060

Analyst: John O'Neill

VA-Related: Yes

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

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Short Title: Targeting IL-6/IL-11/STAT3 pathways in cancer

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Investigator: Jiayuh Lin  
ID: IBC-00003674  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: IBC Submission: 2511GCCC: IMA203 vs. Investigator's Choice of Treatment in Adults w/  
Melanoma  
Investigator: Petr Hausner  
ID: IBC-00008353  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Channelrhodopsin based stimulation of CNS neurons  
Investigator: Nathan Cramer  
ID: IBC-00001191  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: A High-Throughput Drug Screening Assay for Focal Cortical Dysplasia  
Investigator: Alexander Ksendzovsky  
ID: IBC-00007489  
Reviewer(s): No Reviewer assigned for the current review cycle.  
Related Items: This item has no related submissions  
VA Site: No  
Discussion: There have been no substantive changes to this protocol submission

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Short Title: Role of TLR4 signaling in Innate and Adaptive Responses to pathogens  
Investigator: Stefanie Vogel  
ID: IBC-00001187  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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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: Yes

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

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Short Title: Regulatory processes of voltage gated calcium channels  
Investigator: Ivy Dick  
ID: IBC-00003852  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Molecular mechanisms and therapeutic development for heart failure  
Investigator: Ruya Liu  
ID: IBC-00006935  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission

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Short Title: Differential regulation of CD4 T cells migration across lymphatic endothelium  
Investigator: Jonathan Bromberg  
ID: IBC-00004068  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: IBC: 2214GCCC:Bortezomib, Lenalidomide and Dexamethasone (VRd) Followed by Ciltacel, a CAR-T Therapy in Participants With Newly Diagnosed Multiple Myeloma  
Investigator: Mehmet Kocoglu  
ID: IBC-00006970  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Virus construct use in mouse  
Investigator: Adam Puche  
ID: IBC-00001487  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: In Vivo calcium Imaging to assess sex differences in the activity of MnPN sleep neurons  
Investigator: Jessica Mong  
ID: IBC-00004558  
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: 2053GCCC: AUTO1 in relapsed or refractory B-ALL  
Investigator: Jean Yared  
ID: IBC-00005752  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Targeting IKK/NF-kappaB in prostate cancer  
Investigator: Hancai Dan  
ID: IBC-00002533  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: IBC: 2128GCCC: EXPANDED ACCESS PROTOCOL (EAP) OF IDECABTAGENE VICLEUCEL NONCONFORMING FOR COMMERCIAL RELEASE (HP-00095365)  
Investigator: Mehmet Kocoglu  
ID: IBC-00006104  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Addiction, CAM gene variation and small molecule effects  
Investigator: George Uhl  
ID: IBC-00006592  
Analyst: John O'Neill  
VA-Related: Yes  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Immunopathogenesis and novel approaches for treatment of experimental uveitis  
Investigator: Kamal Moudgil  
ID: IBC-00006014  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: IBC Submission: PrTK03  
Investigator: Mohummad Siddiqui  
ID: IBC-00004568

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: Phase 3 Study to Evaluate the Efficacy and Safety of Fazirsiran in Participants With Alpha-1 Antitrypsin Deficiency-Associated Liver Disease  
Investigator: Kirti Shetty  
ID: IBC-00007935  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Altered ion channel function in neuromuscular disorders and aging  
Investigator: Christopher Ward  
ID: IBC-00007140  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: LDHA upregulation contributes to long term epilepsy development  
Investigator: Alexander Ksendzovsky  
ID: IBC-00007764  
Analyst: John O'Neill  
VA-Related: No  
Discussion: There have been no substantive changes to this protocol submission.

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Short Title: Injection of human myogenic cell line into mice  
Investigator: Robert Bloch  
ID: IBC-00002077  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification involves the use of siRNA in animals. This work is classified by the NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules as III-F-1 and is administratively approved using BSL-1 and A-BSL-1 facilities and practices.

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Short Title: Genomic specification of heme in nutrition and development  
Investigator: Iqbal Hamza  
ID: IBC-00006944  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification has been administratively approved for changes in personnel and updates to IACUC information.

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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 changes in personnel.

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Short Title: Ethanol Remodeling of Striatal Microcircuits  
Investigator: Brian Mathur  
ID: IBC-00002399  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification has been administratively approved for changes in personnel.

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Short Title: Fibrin(ogen) Structure and Interactions  
Investigator: Leonid Medved  
ID: IBC-00002816  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification has been administratively approved for updates to the abstracts and experimental design.

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Short Title: Viral Pathogenesis and Immunotherapy  
Investigator: Lishan Su  
ID: IBC-00005983  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification has been administratively approved for the use of linear and circular DNA in animals. This work is classified by the NIH Guidelines for Research with Recombinant or Synthetic Nucleic Acids as III-F-1 using ABSL-1 facilities and practices.

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Short Title: F. tularensis Vaccine Development  
Investigator: Eileen M. Barry  
ID: IBC-00001967  
Analyst: John O'Neill  
VA-Related: No  
Discussion: This modification has been administratively approved for updates of the biosafety cabinet certification dates.

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Short Title: Screening for Lateral Gene Transfer (LGT) Between Wolbachia and Drosophila Using CRISPR

Investigator: Julie Hotopp  
ID: IBC-00004649  
Analyst: Holda Ramos  
VA-Related: No  
Discussion: This modification has been modified for updates in laboratory locations.

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Short Title: Adeno-associated viral (AAV) gene insertion to manipulate neural activity during natural and drug reward seeking behaviors

Investigator: Donna Calu  
ID: IBC-00003239  
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: Understanding and targeting breast cancer metastasis-initiating circulating tumor cells and niches

Investigator: Min Yu  
ID: IBC-00007171  
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: Holda Ramos  
VA-Related: No  
Discussion: This modification has been administratively approved for clarification of cell lines used.

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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 changes in personnel.

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Short Title: Evaluation of new vaccines in animal models and laboratory assays

Investigator: Marcela Pasetti  
ID: IBC-00000540  
Analyst: John O'Neill  
VA-Related: No

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

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Short Title: Barrier Dysfunction in Severe Surgical Diseases

Investigator: Douglas J. Turner

ID: IBC-00000344

Analyst: John O'Neill

VA-Related: Yes

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

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Short Title: Calcium Signaling in Heart

Investigator: W. Jonathan Lederer

ID: IBC-00000826

Analyst: John O'Neill

VA-Related: No

Discussion: This modification has been administratively approved for updates to personnel, laboratory locations, and animal-use information.

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Short Title: Study of PKD1 processing in the kidney

Investigator: Feng Qian

ID: IBC-00002307

Analyst: John O'Neill

VA-Related: No

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

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Short Title: Electrical Signaling at the Mitochondrion in Health and Disease

Investigator: Vivek Garg

ID: IBC-00005962

Analyst: John O'Neill

VA-Related: No

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

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Short Title: Understanding and targeting breast cancer metastasis-initiating circulating tumor cells and niches

Investigator: Min Yu

ID: IBC-00007171

Analyst: John O'Neill

VA-Related: No

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