



# INSTITUTIONAL BIOSAFETY COMMITTEE

UNIVERSITY *of* WASHINGTON

## Meeting Minutes

**Date:** Wednesday, December 14, 2022

**Time:** 10:00 AM – 12:00 PM

**Location:** Zoom

- Members Present:**
1. Jim Boonyaratanakornkit, Allergy and Infectious Diseases
  2. Jason Cantera (*Community Member*)
  3. Lesley Colby, Comparative Medicine (*Animal Containment Expert*)
  4. Lesley Decker, Environmental Health & Safety (*Biosafety Officer*)
  5. Richard Grant, Washington National Primate Research Center
  6. Erin Heiniger, Department of Bioengineering (*Laboratory Specialist*)
  7. Kevin Hybiske, Allergy and Infectious Diseases (*IBC Vice Chair*)
  8. Stephen Libby, Laboratory Medicine (*Animal Containment Expert*)
  9. Scott Meschke, Environmental & Occupational Health Sciences
  10. Susan Parazzoli (*Community Member*)
  11. Jason Smith, Microbiology (*IBC Chair*)
  12. Paul Swenson, Seattle-King Co. Dept. of Public Health (*Community Member*)

### Commonly Used Abbreviations

IBC: Institutional Biosafety Committee

BSO: Biological Safety Officer

BUA: Biological Use Authorization

BSL: biosafety level

PI: Principal Investigator

IACUC: Institutional Animal Care and Use Committee

NHP: Non-Human Primate

NIH: National Institutes of Health

DURC: Dual Use Research of Concern

1. **CALL TO ORDER:** The Institutional Biosafety Committee (IBC) Chair called the meeting to order at 10:02 a.m. A quorum was present.
2. **REMINDER:** The IBC Chair reminded attendees that any notes that they retain are subject to public disclosure. A statement was also made about conflict of interest and voting on research proposals as described in the IBC Charter. This includes sharing a grant or a familial relationship.
3. **APPROVAL OF MINUTES:**
  - The IBC Chair sought a motion to approve the minutes from the November 16, 2022, meeting.
  - A member made a motion to approve the November 16, 2022, minutes. Another member seconded the motion.
  - The committee voted unanimously to approve the November 16, 2022, meeting minutes.
4. **OLD BUSINESS:**
  - At the November 16, 2022, meeting, Dr. Fujise's BUA was approved pending edits to the BUA. This BUA is still pending.
  - At the November 16, 2022, meeting, Dr. Green's BUA was approved pending clarification of vector administration to NHPs. This BUA is still pending.
  - At the November 16, 2022, meeting, Dr. Schwartz's (001) BUA was approved pending edits to the BUA letter and clarification of vivarium locations used. This BUA is still pending.
  - At the November 16, 2022, meeting, Dr. Schwartz's (002) BUA was approved pending edits to the BUA addition of ABSL-2 vivarium locations on the letter. This BUA is still pending.
  - At the November 16, 2022, meeting Sniadecki's (002) BUA was approved pending successful completion of the lab inspection. This BUA is still pending.
  - At the November 16, 2022, meeting Sniadecki's (002) BUA was approved pending successful completion of the lab inspection. This BUA is still pending.
5. **BIOSAFETY OFFICER (BSO) REPORT:** The Biosafety Officer Report includes (1) projects involving recombinant or synthetic nucleic acids covered under section III-E and III-F of the *NIH Guidelines*, (2) proposals involving non-recombinant biohazardous agents requiring BSL-1 and BSL-2 containment, and (3) administrative updates, such as room additions.
  - a. Biosafety Officer Report
    - Dr. Dodd renewed the BUA *Development and characterization of novel and existing advanced disinfection and oxidation processes for inactivation of chlorine-resistant pathogens, and elimination of antibiotic resistance genes and antibiotic resistant bacteria, in (waste)water and on surfaces* working with Risk Group 2 agents (bacterium and pathogenic strains of *E. coli*), and Risk Group 1 non-pathogenic *E. coli* strains in vitro (*NIH Guidelines* Section III-F and N/A).
    - Dr. Muller renewed the BUA *Andrology Research Lab / Male Fertility Lab* working with human and NHP blood, tissue, body fluids, and cell lines in vitro (*NIH Guidelines* Sections N/A).
    - Dr. Geisse added a new room for work with previously approved agents to the BUA *Development of cultureware and devices for human cells in vitro research* (*NIH Guidelines* Sections N/A).
    - Dr. Strand renewed the BUA *Phytoremediation: Transformation of Plants with Genes that are Capable to Degrade Pollutants* working with Risk Group 1 microorganisms and transgenic plants (*NIH Guidelines* Section III-E and N/A).

- Dr. Harwood added a new Risk Group 2 non-recombinant bacteria to previously approved rooms (*NIH Guidelines* Section N/A).
- Dr. Dhaka added a new room to the BUA *Dhaka Zebrafish* (*NIH Guidelines* Sections N/A).
- Dr. Dhaka added new rooms to the BUA *Transsynaptic Tracing of Somosensory Circuits* (*NIH Guidelines* Sections N/A).
- Dr. Rabinovitch renewed the BUA *Flow Cytometry Cost Center* working with pre-approved cells in vitro (*NIH Guidelines* Section N/A).
- Dr. Dembrow added new rooms to the BUA *Developing a primate culture platform for the treatment of degenerative disorders* (*NIH Guidelines* Section N/A).
- Dr. Ladiges removed previously approved agents and added new rooms. They also added the use of human blood, tissue, and body fluids to the BUA *Alzheimer's Disease Intervention* (*NIH Guidelines* Sections N/A).
- Dr. Koelle added work with non-lesion samples suspected to be infected with monkeypox virus and updated the agent names for their vaccinia virus strains to the BUA *Koelle Laboratory at UW* (*NIH Guidelines* Section N/A).
- Dr. Greninger added the use of inactivated Risk Group 2, 3, and 4 nucleic acids to the BUA *Discovery and Characterization of Virus-Host Interactions and Determination of Antiviral Drug Resistance* (*NIH Guidelines* Section III-F).
- Dr. Stekler registered work for clinical blood draws to the project *The GAIN (Greater Access and Impact with NAT) Study: Improving HIV Diagnosis, Linkage to Care, and Prevention Services with HIV Point-of-Care Nucleic Acid Tests (NATs)* (*NIH Guidelines* Section N/A). This work does not require a BUA.
- The IBC Chair a motion to approve this month's Biosafety Officer Report.
- A member made a motion to approve this month's Biosafety Officer Report. Another member seconded the motion.
- The Committee unanimously voted to approve this month's Biosafety Officer Report.

## 6. INDIVIDUAL PROJECT REVIEWS

- a. Ailion, Michael, renewal, *Dense-core vesicles*
  - *NIH Guidelines* Sections III-D, III-E, and III-F apply.
  - The assigned IBC Primary Reviewer presented the Primary Review.
  - The Ailion lab aims to identify and characterize genes involved in release of peptide hormones.
  - This lab works includes work with lentiviral vectors in vitro, transgenic *C. elegans* and Risk Group 1 microorganisms.
  - A lab inspection has been performed and is still pending a response.
  - All required trainings are complete.
  - The draft BUA letter was shown.
  - The IBC Primary Reviewer made a motion to approve the draft BUA for Dr. Ailion.
  - The Committee voted unanimously to approve the draft BUA for Dr. Ailion pending successful completion of the lab inspection.
  
- b. Bitto, Alessandro, change, *Pharmacological approaches to aging and mitochondrial disease*
  - *NIH Guidelines* Sections III-D, III-E, and III-F apply.

- The assigned IBC Primary Reviewer presented the Primary Review.
  - The Bitto lab is taking over this BUA from a retiring PI and adding the use of adeno-associated viral vectors and lentiviral vectors for in vitro work.
  - A lab inspection has been performed and all deficiencies have been corrected.
  - All required trainings are complete.
  - This project has an IACUC protocol in review.
  - The draft BUA letter was shown.
  - The IBC Primary Reviewer made a motion to approve the draft BUA for Dr. Bitto.
  - The Committee voted unanimously to approve the draft BUA for Dr. Bitto.
- c. Bothwell, Mark, change, *iPSC models for neuromuscular diseases*
- *NIH Guidelines* Sections III-D applies.
  - The assigned IBC Primary Reviewer presented the Primary Review.
  - The Bothwell lab is adding the use of West Nile Virus for in vitro work at BSL-2.
  - A discussion occurred regarding the biosafety officer advising the lab on substituting and eliminating sharps usage with West Nile Virus.
  - The lab was inspected, and no deficiencies were noted.
  - All required trainings are complete.
  - The draft BUA letter was shown.
  - The IBC Primary Reviewer made a motion to approve the draft BUA for Dr. Bothwell.
  - The Committee voted unanimously to approve the draft BUA for Dr. Bothwell.
- d. Geng, Yijie, new, *The Molecular Basis of Social Behavior*
- *NIH Guidelines* Sections III-D, III-E, and III-F apply.
  - The assigned IBC Primary Reviewer presented the Primary Review.
  - The Geng lab aims to use zebrafish and mouse models to study the molecular mechanisms that regulate social behavior; specifically, how environment and genetics determine social behavior.
  - This lab works with transgenic zebrafish and lentiviral vectors in vitro and in vivo and non-pathogenic strains of *E. coli* in vitro.
  - The lab was inspected, and no deficiencies were noted.
  - All required trainings are complete.
  - This project has an IACUC protocol in review.
  - The draft BUA letter was shown.
  - The IBC Primary Reviewer made a motion to approve the draft BUA for Dr. Geng.
  - The Committee voted unanimously to approve the draft BUA for Dr. Geng.
- e. Giacani, Lorenzo, change, *Studies on the pathogenesis of syphilis and human treponematoses*
- *NIH Guideline* Sections N/A (no recombinant or synthetic nucleic acid work).
  - The assigned IBC Primary Reviewer presented the Primary Review.
  - The Giacani lab is adding an antibiotic resistance experiment with *Treponema pallidum* and doxycycline for in vitro work at BSL-2. No genetic manipulations are involved.
  - A lab inspection was not required as the lab was recently inspected.
  - All required trainings are complete.
  - Medical counseling is required prior to starting this specific experiment with *Treponema pallidum*.

- The draft BUA letter was shown.
  - The IBC Primary Reviewer made a motion to approve the draft BUA for Dr. Giacani.
  - The Committee voted unanimously to approve the draft BUA for Dr. Giacani
- f. Grant, Richard, renewal, *Primate Diagnostic Services Laboratory*
- *NIH Guidelines* Sections III-D and III-F apply.
  - The assigned IBC Primary Reviewer presented the Primary Review.
  - The Grant lab provides diagnostic services and reagents for specialized assays to allow detection and characterization of infectious agents in nonhuman primates to help maintain animal health.
  - This work includes handling non-human primate (NHP) blood, fluids, and cells that may contain herpes B virus, samples exposed to primate lentiviruses, and Simian Immunodeficiency Virus.
  - A lab inspection has been performed and all deficiencies have been corrected.
  - All required trainings are complete.
  - The draft BUA letter was shown.
  - The IBC Primary Reviewer made a motion to approve the draft BUA for Dr. Grant.
  - The Committee voted unanimously to approve the draft BUA for Dr. Grant with one member recusing themselves pending addition of wildtype agent to the BUA letter.
- g. Johnsen, Jill, new, *Studies of variation impacting traits and disease in classical hematology*
- *NIH Guidelines* Sections III-D and III-F apply.
  - The assigned IBC Primary Reviewer presented the Primary Review.
  - The Johnsen lab aims to study variation in blood-associated traits and disorders.
  - This lab works with replication deficient lentiviral vectors, non-pathogenic strains of *E. coli* and Epstein Barr virus in vitro.
  - The lab was inspected, and all deficiencies have been corrected.
  - All required trainings are complete.
  - The draft BUA letter was shown.
  - The IBC Primary Reviewer made a motion to approve the draft BUA for Dr. Johnsen.
  - The Committee voted unanimously to approve the draft BUA for Dr. Johnsen pending one correction to the BUA letter.
- h. Paik, Jisun, change, *Microbiome and Immunity*
- *NIH Guidelines* Section III-D applies.
  - The assigned IBC Primary Reviewer presented the Primary Review.
  - The Paik lab is adding 10 recombinant bacteria strains that were isolated from the mouse gastrointestinal tract. The strains are engineered for deficient expression of interbacterial antagonists.
  - This change includes administering Risk Group 1 and 2 bacteria in vivo to mice.
  - A lab inspection was not required as all work takes place inside a vivarium.
  - All required trainings are complete.
  - This project has an IACUC protocol in review.
  - The draft BUA letter was shown.
  - The IBC Primary Reviewer made a motion to approve the draft BUA for Dr. Paik.
  - The Committee voted unanimously to approve the draft BUA for Dr. Paik pending one update to the BUA letter.

## 7. SUBCOMMITTEE REPORTS:

- i. Disis, Mary (Nora), renewal, *Phase 1/2 expansion cohorts trial of intravenous administration of TAEK-VAC-HerBy vaccine alone and in combination with HER2- and PD-1/PD-L1 antibodies in patients with advanced HER2-expressing cancer*
- *NIH Guidelines* Section III-C applies.
  - Three members of the IBC served as the Subcommittee Reviewers. One of the Subcommittee Reviewers presented the Subcommittee Report.
  - This is an industry-sponsored (Bavarian Nordic), multi-center, open-label, phase 1/2 trial of the safety and tolerability of IV administered TAEK-VAC-HerBy (TVH) vaccine in patients with HER2-expressing tumors.
  - The biggest risk involved is the risk of percutaneous sharp inoculation during preparation or administration of drug.
  - All required trainings are complete.
  - The Employee Health Center reviewed the study. No medical management plan or specific occupational health requirements are required for this project.
  - The draft BUA letter was shown.
  - A member made a motion to approve the draft BUA letter for Dr. Disis. Another member seconded the motion.
  - The Committee voted unanimously to approve the draft BUA for Dr. Disis.
- j. Gwin, William, renewal, *A Phase II Study of Concurrent WOKVAC Vaccination with Neoadjuvant Chemotherapy and HER2-Targeted Monoclonal Antibody Therapy*
- *NIH Guidelines* Section III-C applies.
  - Three members of the IBC served as the Subcommittee Reviewers. One of the Subcommittee Reviewers presented the Subcommittee Report.
  - This is a renewal of a non-industry-sponsored, single center, open-label, single-arm phase II clinical trial to evaluate the safety and immunogenicity of neoadjuvant WOCVAC plasmid DNA multi-antigen (HER2, IGFBP-2, and IGF-1R) vaccination, given with neoadjuvant chemotherapy and anti-HER2 antibodies) for stages I-III breast cancer.
  - The biggest risk involved is the risk of percutaneous sharp inoculation during preparation or administration of drug.
  - The required trainings are still pending.
  - The draft BUA letter was shown.
  - A member made a motion to approve the draft BUA letter for Dr. Gwin. Another member seconded the motion.
  - The Committee voted unanimously to approve the draft BUA for Dr. Gwin.
- k. Hall, Evan, new, *An Open-Label, Multicenter, Phase 1 Study of RP3 as a Single Agent and in Combination with PD1 Blockade in Patients with Solid Tumors*
- *NIH Guidelines* Section III-C applies.
  - Three members of the IBC served as the Subcommittee Reviewers. One of the Subcommittee Reviewers presented the Subcommittee Report.
  - This is a new industry-sponsored, multi-center, phase I clinical trial of recombinant replication-competent herpes simplex virus 1 (HSV-1) to treat solid tumors.
  - Risk of percutaneous sharp inoculation during preparation or administration of drug.

- A discussion occurred with the following questions: Is infection control notified when a medical management plan is required? Will the product also kill healthy cells? Data provided by sponsor only refers to action of product on cancer cells.
  - All required trainings are complete.
  - A medical management plan (MMP) for work with oncolytic HSV-1 is required before work can proceed.
  - The draft BUA letter was shown.
  - A member made a motion to approve the draft BUA letter for Dr. Hall. Another member seconded the motion.
  - The Committee voted unanimously to approve the draft BUA for Dr. Hall pending update of the medical management plan.
- I. Krakow, Elizabeth, renewal, *Phase I study of adoptive immunotherapy with CD8\* and CD4\* memory T cells transduced to express an HA-1- specific T cell receptor (TCR) for children and adults with recurrent acute leukemia after allogeneic hematopoietic stem cell transplantation (HCT).*
- *NIH Guidelines* Section III-C applies.
  - Three members of the IBC served as the Subcommittee Reviewers. One of the Subcommittee Reviewers presented the Subcommittee Report.
  - This is a renewal of a single-center, non-industry-sponsored, investigator-initiated (Marie Bleakley), open-label phase I clinical trial to evaluate the feasibility and safety of HA-1 TCR T cells.
  - Risk of percutaneous exposure of staff handling, preparing, and administering drug.
  - All required trainings are complete.
  - The draft BUA letter was shown.
  - A member made a motion to approve the draft BUA letter for Dr. Krakow. Another member seconded the motion.
  - The Committee voted unanimously to approve the draft BUA for Dr. Krakow.
- m. Polyak, Steve, change, *Virus-Host Interactions in Cell Culture*
- *NIH Guidelines* Section III-D applies.
  - Three members of the IBC served as the Subcommittee Reviewers. One of the Subcommittee Reviewers presented the Subcommittee Report.
  - The Polyak lab is adding recombinant SARS-CoV-2 and new non-recombinant SARS-CoV-2 variants for in vitro work at BSL-3.
  - A lab inspection was not required.
  - All required trainings are complete.
  - Medical management plan is in place for SARS-CoV-2.
  - The draft BUA letter was shown.
  - A member made a motion to approve the draft BUA letter for Dr. Polyak. Another member seconded the motion.
  - The Committee voted unanimously to approve the draft BUA for Dr. Polyak.
- n. Shadman, Mazyar, renewal, *A Phase I/II Study to Evaluate the Safety of Cellular Immunotherapy Using Autologous T Cells Engineered to Express a CD 20-Specific Chimeric Antigen Receptor for Patients with Relapsed or Refractory B Cell Non-Hodgkin's Lymphomas.*
- *NIH Guidelines* Section III-C applies.

- Three members of the IBC served as the Subcommittee Reviewers. One of the Subcommittee Reviewers presented the Subcommittee Report.
- This is a renewal of a single-center, non-industry-sponsored (but supported by Mustang Bio) phase I/II clinical trial to determine the maximum tolerated dose of an ex-vivo lentivirus transduced and expanded autologous T cell product expressing fully human CD20-specific CAR for patients with relapsed/refractory B-cell NHL.
- Risk of percutaneous exposure of staff handling, preparing, and administering drug.
- All required trainings are complete.
- The draft BUA letter was shown.
- A member made a motion to approve the draft BUA letter for Dr. Shadman. Another member seconded the motion.
- The Committee voted unanimously to approve the draft BUA for Dr. Shadman.

**10. FOR YOUR INFORMATION:**

- **NIH Incident Reports:**
  - The NIH responded that no further information or action was required for a recent NIH reportable incident involving a mouse that escaped from a biosafety cabinet in an ABSL-3 lab. The mouse did not escape containment and there was no personnel exposure.
  - A recent incident is being investigated involving a splash to the eye of mouse blood from a mouse that had previously been exposed to recombinant Risk Group 1 mouse plasmodium that is non-infectious to humans.
  - A second incident is being investigated involving a needlestick that had been used with a non-human primate that had previously been exposed to SHIV.
  - A third incident is being investigated involving a needlestick from a needle that may have been used with recombinant *Listeria monocytogenes*.

**11. ISSUES FROM THE FLOOR & PUBLIC COMMENTS:** There were no issues from the floor and no public comments.

**12. MEETING ADJOURNED AT APPROXIMATELY 11:46 A.M.**