

**IBC Meeting Minutes**  
**2/12/2026**  
**3:00pm TEAMS**

**Member Attendees:** John Keeny, Fred Harrison, Carrie Howland, Rachel Spurbeck, Craig Bartling, Gloria Sivko, Addie Moore, Caitlyn Heil, David Glasbrenner, Yun Li, Ray Henson, Gary Carlin, Manju Kulkarni, Amber Singh, Chuck DeSanti

**Guest Attendees:** Antonia Duran

**I. Application Reviews**

**Application:** FY26-03

**Study title:** Circuit Optimization to Delete Engineered Organisms and Nucleic Acids

**PI:** Antonia Duran

- **PI and laboratory staff performing the research have been appropriately trained in the safe conduct of the research: Y**
  - **Applicable section of the NIH Guidelines:** Section III-D-2
  - **BSL-# 2**
  - **Agent characteristics:** While some of the source organisms listed below are risk group 2, all genes and microbes utilized on this project will not have potential to cause any harm. The genes utilized are not virulence factors, are non-toxic, and will not be utilized in a commercial expression strain of *E. coli*.
  - **Types of manipulations planned:** cloning, recombination and CRISPR modification to develop a genetic circuit for containment of engineered microbes.
  - **Source(s) of the nucleic sequences (e.g., species):** *Francisella novicida*, *E. coli*, *S. pyogenes*, *A. Victoria*, *PhiC31 phage*, *Discosoma sp.*, *P. aeruginosa*, *P. fluorescens*, *P. syringae*, *M. jannaschii*, *bacteriophage*.
  - **Nature of the nucleic acid sequences (e.g., structural gene, oncogene):**  
The nucleic acid sequences are genes encoding enzymes.
  - **Host(s) and vector(s) to be used:**  
Host: *E. coli*  
Plasmids: pBR322, pSC101  
Cas9 ribonucleoprotein complex
  - **Transgene expression: yes**  
**Protein function:** enzymes for DNA cutting, genome insertion, regulators, tRNA synthetase, and fluorescent proteins
- Move to approve: David Glasbrenner**  
**Second: Caitlyn Heil**  
**Outcome: All in Favor**

**Application Amendment:** FY23-015-A1

**Study title:** Project 07

**PIs:** Chuck DeSanti

- **PI and laboratory staff performing the research have been appropriately trained in the safe conduct of the research:** Y
- **Applicable section of the NIH Guidelines:** Section-III-D-1
- **BSL-#** 2
- **Agent characteristics:** green fluorescence.
- **Types of manipulations planned:** recombinant BSL-2 organism purchased, no further genetic manipulations
- **Source(s) of the nucleic sequences (e.g., species):** *Aequorea victoria*
- **Nature of the nucleic acid sequences (e.g., structural gene, oncogene):** structural gene encoding fluorescent protein from a jellyfish.
- **Host(s) and vector(s) to be used:** *Salmonella enterica*
- **Transgene expression:** Yes

**Protein function:** fluorescence

**Move to approve:** Ray Henson

**Second:** Yun Li

**Outcome:** All in Favor

**Application:** FY26-02

**Study title:** RECLAIM: Recovery of Critical Lithium and Industrial Minerals

**PI:** Chloe Hart

- **PI and laboratory staff performing the research have been appropriately trained in the safe conduct of the research:** Y
  - **Applicable section of the NIH Guidelines:** Section-III-E
  - **BSL-#** 1
  - **Agent characteristics:** mineral and metal binding
  - **Types of manipulations planned:** recombination and expression
  - **Source(s) of the nucleic sequences (e.g., species):** *Rhodococcus rhodochrous*, *Nocardioides zeae*, *Hansschlegelia quercus*, *Escherichia coli*, and synthetic sequences.
  - **Nature of the nucleic acid sequences (e.g., structural gene, oncogene):** structural genes encoding metal binding proteins
  - **Host(s) and vector(s) to be used:**  
*Escherichia coli* BL21(DE3), pET-28a
  - **Transgene expression:** yes
- Protein function:** Lithium and other metal binding

**Application:** FY26-05

**Study title:** Polymeric Nanoparticles to Achieve Taxonomically-Specific Delivery of Genetic Control Technologies

**PIs:** Sarah Ducheschi & Robert Murdoch

- **PI and laboratory staff performing the research have been appropriately trained in the safe conduct of the research:** Y
- **Applicable section of the NIH Guidelines:** Section-III-E

- **BSL-# 1**
- **Agent characteristics:** green fluorescence.
- **Types of manipulations planned:** recombination, plasmid delivery into algae, and gene expression
- **Source(s) of the nucleic sequences (e.g., species):** *Aequorea victoria*
- **Nature of the nucleic acid sequences (e.g., structural gene, oncogene):** structural gene encoding fluorescent protein from a jellyfish.
- **Host(s) and vector(s) to be used:**  
*E. coli 5 alpha-cloning host*  
*Chlorella vulgaris- algae*  
*Chlorella pyrenoidosa algae*  
*Phaeodactylum tricornutum-algae*  
*Thalassiosira pseudonana-algae*
- **Transgene expression:** Yes  
**Protein function:** fluorescence

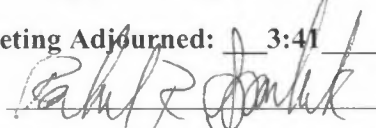
**II. Old Business:**

- Incident report was submitted to NIH.

**III. New Business (review of incidents, inspections/oversight, IBC training, or additional topics):**

- IBC applications that were determined to be exempt and therefore administratively approved:
  - FY26-04: Exempt research category section III-F-1
  - FY26-06: Exempt research category section III-F-8
  - FY26-07: Exempt research category section III-F-8
  - FY26-08: Exempt research category section III-F-8
- IBC applications that were determined to be section III-E, simultaneous notification with initiation:
  - FY26-02
  - FY26-05
- Meeting minutes from the last meeting on 01/15/2026 were reviewed and approved by all IBC members.

Meeting Adjourned: 3:41 PM

 3/12/26

Rachel Spurbeck, IBC Chair or

Date

Yun Li, IBC Co-Chair

**Redaction Disclaimer:** Information redacted includes trade secret information, other confidential commercial information, and specific information whose disclosure would directly compromise institutional or national security.

