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 Duccheschi & 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
  Thallasiosira 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):

a. 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

b. IBC applications that were determined to be section III-E, simultaneous notification with initiation:
   - FY26-02
   - FY26-05

c. Meeting minutes from the last meeting on 01/15/2026 were reviewed and approved by all IBC members.

Meeting Adjourned: 3:41 **PM**

Rachel Spurbeck, IBC Chair or

Yun Li, IBC Co-Chair

3/12/26

Date

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