

# Institutional Biosafety Committee Meeting

11/3/2025

1:30-3:00pm

Zoom Virtual Meeting

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## Institutional Biosafety Committee Meeting minutes

### Meeting Attendance:

- Members in attendance:
  - Elena Demireva
  - Jan Patterson Samson
  - Carrie Anglewicz
  - Dave Morgan
  - Jonathan Hardy
  - Sarah Roosa
  - Raj Kulkarni
  - Jamie Willard-Smith
  - Michael Bachmann
  - Carolina de Aguiar Ferreira
- Members not in attendance:
  - Andras Komaromy
  - Guo-Qing Song
  - Simon Petersen-Jones
- Others in attendance:
  - Chris Colvin
  - Alessandra Hunt
  - Luis Ochoa Carrera

### Call to order:

Elena Demireva

### Roll call:

Chris Colvin

### Discussion of the agenda:

- Approved

### Discussion of minutes:

- Approved

# Institutional Biosafety Committee Meeting

11/3/2025

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---

## Registration review:

### Study Info

**Safety0001321:** [REDACTED]

**Engineering Insecticidal Flavones in tomato**

**Training: Complete for all members listed**

**NIH III E-2-a, RG-1, BSL-1**

This registration has been approved with edits. The PI has been asked to clarify the following:

- Cells
  - 4: Remove info
- rDNA Usage
  - 3b: Missing genes (FSN1, FSL1, AGL6). Typo Zea Mayz
  - 5a: Remove tomato, as it is recipient, not host
  - 8: Change to N/A
- Exposure assessment
  - 1: Remove None as a risk, comment on consequences if environmental release occurs.

### Study Info

**Safety0001358:** [REDACTED]

**[REDACTED] - DNRA: Catalyzing multi-electron reductions using a pentaheme scaffold**

**Training: Complete for all members listed**

**NIH III E, RG-1, BSL-1**

This registration has been approved with edits. The PI has been asked to clarify the following:

- rDNA Usage
  - 7: Change to no, if just using for selection.

### Study Info

**Safety0001359:** [REDACTED]

**Alterations in synaptic transmission in neocortical and thalamocortical circuits**

**Training: Complete for all members listed**

**NIH III D-4-a, RG-2, BSL-2**

This registration has been approved with edits. The PI has been asked to clarify the following:

- Basic info
  - 1, provide details on processes, model system used.
- rDNA Usage
  - 8: Answer questions 1, 2, and 3 for AAV vector.

# Institutional Biosafety Committee Meeting

11/3/2025

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Zoom Virtual Meeting

---

- rDNA Work Description
  - Answer questions 5 and 6.
  -
- Exposure Assessment
  - 3: Add aerosol centrifuge lids to engineering controls.
- Supporting Documents
  - Include Safer Sharps review form if using with infectious materials.

## Study Info

**Safety0001362:** [REDACTED]

**The Genomic Basis of Signal Diversity (Continued)**

**Training: Complete for all members listed**

**NIH III D-4, RG-1, BSL-1**

This registration has been approved with edits. The PI has been asked to clarify the following:

- rDNA Usage
  - 3b: Add Cas9 and sgRNAs.
  - 4b: Missing vectors that are in listed in the description: : pDONR 221, pGW\_cfosEGFP,
- rDNA Work Description
  - 1: Provide link or references for materials.
- Exposure Assessment
  - 5: Change to 70% ETOH for 5 min contact time.

## Study Info

**Safety0001363:** [REDACTED]

**SARS-CoV2 ORF8 protein-protein interactions**

**Training: Complete for all members listed**

**NIH III E-1, RG-1, BSL-2**

This registration has been approved with edits. Michael Bachmann has abstained from the vote. The PI has been asked to clarify the following:

- Biosafety Summary
  - 1: Remove Virus Section
- Primary Cells
  - 1: Remove PBMC's until needed.
- Bacteria
  - 1: Add all strains listed on usage page, add Stable lines.
- rDNA Usage
  - 8: Change to N/A
  - 9: Change to N/A
- rDNA Work description

# Institutional Biosafety Committee Meeting

11/3/2025

1:30-3:00pm

Zoom Virtual Meeting

---

- 2: Add mice to recipients
- Exposure Assessment
  - 1: Address ORF 8 potential exposure consequences and address Bloodborne Pathogen risks with the use of human materials.

## Study Info

**Safety0001363:** [REDACTED]

**2025Renewal\_Mechansims of regulation of cell death**

**Training: Complete for all members listed**

**NIH III D, RG-2, BSL-2**

This registration has been approved with edits. The PI has been asked to clarify the following:

- Cells
  - 1: Update mammalian/animal cells to BSL-1, update category from mammalian to human for human cell lines.
- Virus
  - 2: Typo “lentiviral”
- rDNA Usage
  - 4e: #3 OATP missing in summary and elsewhere in the document, update information to include this.
  - 8: Address risks, answer for 1, 2, and 3 questions.
- rDNA work Description
  - 2: Only list recipients of rDNA and remove hosts.
  - 5: Answer for the virus
  - 6: Answer for the virus
- Exposure Assessment
  - 1: Discuss Lentivirus inserts of concern, also BBP exposure from human cell lines
- Supporting Documents
  - Need safer sharps evaluation for safety scalpels if used with human or infectious materials.

## Study Info

**Safety0001371:** [REDACTED]

**Clearance receptors**

**Training: Complete for all members listed**

**NIH III D-3-a, RG-2, BSL-2**

This registration has been approved with edits. The PI has been asked to clarify the following:

- Cells

# Institutional Biosafety Committee Meeting

11/3/2025

1:30-3:00pm

Zoom Virtual Meeting

---

- 3: Remove repeat or explain differences between mammalian and human species.
  - 5a: Atune Cytopix is on the 4<sup>th</sup> floor BPS
- Virus
  - The IBC recommends switching to 3<sup>rd</sup> generation or later Lentivirus for additional Safety features.
- Bacteria
  - List E. coli strains used
- rDNA Usage
  - 5: List E. coli strain.
  - 8: Address risks of the lentivirus inserts.
- rDNA Work Description
  - 2: Remove word “Human”
- Exposure Assessment
  - 1: Address potential of exposure to bloodborne pathogens with the use of human materials.
  - 3: To engineering controls, add centrifuge aerosol lids, and HEPA filters on vacuum lines
  - 5: update to 10% bleach
- Supporting Documents
  - Add safer sharps documents if using sharps with human or infectious materials.

## Study Info

**Safety0001374:** [REDACTED]

**Folding and Degradation of Membrane Proteins**

**Training: Complete for all members listed**

**NIH III E-1, RG-1, BSL-1**

This registration has been approved with edits. The PI has been asked to clarify the following:

- Bacteria
  - Separate K12 and BL21 strains into their own category

## Study Info

**Safety0001375:** [REDACTED]

**[REDACTED] - Study of genetic pathways in fish\_v3**

**Training: Complete for all members listed**

**NIH III D-4-a, RG-1, BSL-1**

# Institutional Biosafety Committee Meeting

11/3/2025

1:30-3:00pm

Zoom Virtual Meeting

---

This registration has been approved with edits. The PI has been asked to clarify the following:

- rDNA Work Description
  - 2: Remove bacteria and include all fish species receiving rDNA

## Study Info

**Safety0001376:** [REDACTED]

**Corneal wound healing**

**Training: Complete for all members listed**

**NIH III D-4-c-2, RG-1, BSL-2**

This registration has been approved with edits. The PI has been asked to clarify the following:

- Biosafety Summary
  - 1: Remove Animal and Genetically modified animal sections.
- Cells
  - 3: List species of cells
  - Update missing rabbit cells in table description.
- rDNA usage
  - 4: Change to yes, list plasmid vectors
- Risk Group
  - Change to RG-2 because of pathogenic bacteria
- Exposure Assessment
  - 1: Address potential of exposure to bloodborne pathogens with the use of human materials.
  - 3: Add aerosol lids and Hepa filter.
  - 5: Add 70% ETOH for 5min contact time,
- Supporting Documents
  - Change reasoning as safer scalpels are available.
  - Need Sharps evaluation form for scalpels.

## Study Info

**Safety0001378:** [REDACTED]

**PRCD-progressive retinal atrophy (PRA)**

**Training: Complete for all members listed**

**NIH III D-4-b, RG-1, BSL-1**

This registration has been approved with edits. The PI has been asked to clarify the following:

- Tissues
  - 1: Update species to canine in the description.
- rDNA usage

# Institutional Biosafety Committee Meeting

11/3/2025

1:30-3:00pm

Zoom Virtual Meeting

---

- 3b: Add bioactivity for PRCD.
- rDNA Work Description
  - 6: List Genus, species and strain
- Exposure Assessment
  - 3: Add aerosol centrifuge lids to engineering controls.
- Supporting Documents
  - Need sharps forms if using sharps with AAV

## Study Info

**Safety0001380:** [REDACTED]

■ lab, PLB

**Training: Complete for all members listed**

**NIH III E, RG-1, BSL-1**

This registration has been approved with edits. The PI has been asked to clarify the following:

- rDNA usage
  - 3b: Add species.
- Team members
  - Add lab manager.

## Study Info

**Safety0001382:** [REDACTED]

**Connecting sequences to functions and assessing the effects of interactions on phenotypes**

**Training: Complete for all members listed**

**NIH III E-2-b, RG-1, BSL-1**

This registration has been approved as is.

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## New Items:

- N/A

## Previous Submissions:

- Safety0001010 [REDACTED]

## Next Meeting:

December 9, 2025 10:30 am via zoom