

Institutional Biosafety Committee Meeting

8/18/25

1:30-3:00pm

Zoom Virtual Meeting

Institutional Biosafety Committee Meeting minutes

Meeting Attendance:

- Members in attendance:
 - Elena Demireva
 - Jonathan Hardy
 - Dave Morgan
 - Guo-Qing Song
 - Raj Kulkarni
 - Michael Bachmann
 - Sarah Roosa
- Members not in attendance:
 - Jamie Willard-Smith
 - Andras Komaromy
 - Carrie Anglewicz
 - Jan Patterson Samson
 - Carolina de Aguiar Ferreira
 - 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 as written.

Discussion of minutes:

- Approved as written.

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Registration review:

Study Info

Safety00011010: [REDACTED]

Mechanisms of TGF- β family regulation

Training: Complete for all members listed

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

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

- rDNA Usage
 - 3a: Add other cells if used to receive rDNA inserts.
 - 4a: Include all cells that are listed in the recipient's section that will receive rDNA.
 - 4b: Include pMK vectors mentioned in earlier sections
 - 5a. Yes and list E.coli host
- rDNA Work Description
 - 2: Remove E. coli from recipients.
- Exposure Assessment
 - 1: Remove statement "probably none". Expand on the potential of Bloodborne pathogens with the use of human cell lines.
 - 2: What is the use of respirators for?
 - 3: Update eye wash flush date.

Study Info

Safety0001276: [REDACTED]

[REDACTED] Genetic regulation of cell fate in mouse embryo and stem cells

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:

- Biosafety Summary
 - 2: Typo in the word "titrated".
 - 2: Add information for the ZIKV experiments if they are still on going. If just storing the virus can leave as is.
- Virus
 - The IBC recommends switching from a 2nd generation to 3rd generation or later lentivirus for increased biosafety for future experiments.
- rDNA usage
 - 3b: Add Cas9 and Cre biological activity and source.
- rDNA Work Description
 - 4: Change to Yes for VSV pseudotyping.

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- 5: This only discusses MMLV, if using other viruses include information.
- 6: Remove first sentence that begins with “Human 293T.....”. List genus, species and strain of pathogens
- Exposure Assessment
 - 1. and 6. Discuss exposure risk to pregnant personnel.

Study Info

Safety0001282: [REDACTED]

Expression of NOR and N2OR

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
 - 5: Remove P. stutzeri as a host.
- rDNA Work Description
 - 2: Remove E. coli from recipients.

Study Info

Safety0001289: [REDACTED]

Stem Cell Core: iPSC Reprogramming

Training: Complete for all members listed

NIH III D, RG-2, BSL-2

This registration has been approved as is. Elena Demireva has abstained from the vote.

Study Info

Safety0001290: [REDACTED]

Metabolism Genomics 2025

Training: Complete for all members listed

NIH III E-2-aRG-1, BSL-1

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

- rDNA usage
 - 4a: Include the use of plasmids and TRV as vectors.
 - 5a: Typo on strain “GV3101”.
- Exposure Assessment
 - 1: Comment on if transgenic plants are released.

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Study Info

Safety0001295: [REDACTED]

[REDACTED] - Gene Transfer 2025

Training: Complete for all members listed

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

This registration has been approved as is. Sarah Roosa has abstained from the vote.

Study Info

Safety0001303: [REDACTED]

Telomerase catalysis and its recruitment to telomeres

Training: Complete for all members listed

NIH III D-3, RG-2, BSL-2+

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

- Virus
 - Retrovirus MMLV is BSL-2
 - The IBC recommends switching from a 2nd generation to 3rd generation or later lentivirus for increased biosafety for future experiments.
- rDNA Usage
 - 5a: Only E. coli, 293 and SF9 cells are hosts, remove the rest.
 - 8: Comment on risks of TERT insert expression as an oncogene
 - Add a detailed exposure protocol or refer to an SOP.
- rDNA Work Description
 - 2: Remove bacterial strains as recipients.
 - 4: Change to Yes
 - 6: Change to Yes
 - 7a: Expand on experimental goals.
- Exposure Assessment
 - 1: Remove wording “in general the human cell lines we use are not harmful”. Comment on Bloodborne Pathogen risks associated with human cell line work.
- Supporting documents
 - Needs sharps evaluation form.

Study Info

Safety0001304: [REDACTED]

[REDACTED]-gene editing to study immunogenic processes

Training: Complete for all members listed

NIH III D-1-a, RG-2, BSL-2+

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

- Biosafety Summary
 - 2: Clarify if putting rDNA into animals, if so update NIH category to NIH III-D-4.
- Virus
 - The IBC recommends switching from a 2nd generation Lentivirus to 3rd generation or later for safety purposes.
- rDNA Usage
 - 4e: Remove statement “No other features”, check on and add additional safety features – e.g. 3’ LTR deletions and self- inactivation of the virus.
 - 5a: Leave HEK, Phoenix and E. coli, remove the others as they are recipients.
 - 9: Include full response procedure or refer to an SOP. You will seek help from Lansing Urgent care, not reporting to the MSU occupational health department.
- rDNA Work Description
 - 4: Change to Yes for VSV pseudotyping.
- Exposure Assessment
 - 4: IBC recommends switching to plastic pipettes with use of 2nd generation Lentivirus and phasing out glass pasteur pipettes long term for use with human cell line or infectious materials.
- Supporting Documents
 - Include sharps evaluation form.

Study Info

Safety0001305: [REDACTED]
cellulose synthesis in cotton

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:

- Basic Summary
 - 3: Remove floral dipping as transformation method.
- rDNA Usage
 - 5a: Only E. coli is a host, remove the rest.
- rDNA Work Description
 - 2: Remove E. coli as a recipient, leave the rest.

Study Info

Safety0001306: [REDACTED]
cellulose synthase

Training: Complete for all members listed

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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:

- rDNA Usage
 - 3b: Add biological activity for CESA inserts
 - 4b: Add pCR8 and pCambia1301 vectors,
- rDNA Work Description
 - 2: If Arabidopsis is a recipient leave, otherwise remove.
- Exposure Assessment
 - 3. update eye wash flush date
- Transgenic Plants
 - This section is needed only if creating stable transgenic plants, can be omitted if doing only transient expression experiment

Study Info

Safety0001309: [REDACTED]

Contrast agent transporter development 2025

Training: Complete for all members listed

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

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

- Team members
 - Update Team, remove people no longer working on this project.
- Cells
 - 5e: Update flow addendum, answer all the questions correctly, origin from humans missing.
- Supporting Documents
 - Update Sharps forms to include sharps used with human material and infectious materials. Plastic serological pipettes no longer considered sharps.

Study Info

Safety0001323: [REDACTED]

Genetic studies of Caulobacter and Brucella spp.

Training: Complete for all members listed

NIH III D-1-a, RG-2, BSL-2

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

- Bacteria
 - 2: Typo on “lineage”.
- Cells
 - 5e: Update to new flow addendum form.

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- rDNA usage
 - 5a: Remove Caulobacter and Brucella if only recipients.
- rDNA Work Description
 - 2: Remove E. coli, add Bacteriodes.

New Items:

- CLICK upgrade complete. Training records are now appearing for team members.

Previous Submissions:

- Safety0001223 [REDACTED]
- Safety0001206 [REDACTED]
- Safety0001281 [REDACTED]
- Safety0001245 [REDACTED]
- Safety0001272 [REDACTED]
- Safety0001271 [REDACTED]
- Safety0001265 [REDACTED]
- Safety0001269 [REDACTED]

Next Meeting:

September 8, 2025 1:30 pm via zoom