

University of Toledo
Institutional Biosafety Committee

Date: May 21, 2026

Meeting time: 12.00 pm- 2.00 pm

Meeting type: Hybrid (Microsoft Teams and HEB 233)

Attendees/Roster:

Member	Attended	Voting	Scientific	Affiliated
DeLaSerna, Ivana	No	Yes	Yes	Yes
Dinardo, Robert S	No	Yes	Yes	No
Dudley, Richard	Yes	Yes	Yes	No
Gray, John	Yes	Yes	Yes	Yes
Kalinoski, Andrea L.	Yes	Yes	Yes	Yes
Leisner, Scott M.	No	Yes	Yes	Yes
Peseckis, Steven M.	No	Yes	Yes	Yes
Pillai, Mahesh R	Yes	Yes	Yes	Yes
Rohrs, Skylar Lee	No	Yes	Yes	Yes
Root, Lisa Jane	Yes	Yes	Yes	Yes
Shemshedini, Lirim	No	Yes	Yes	Yes
Shupp, Andrew Charles (Alt)	No	No	Yes	Yes
Taylor, Roger Travis	Yes	Yes	Yes	Yes
Wooten, Ronald Mark	Yes	Yes	Yes	Yes
Guests : None				
IBC staff: Dissanayake, Ravindika				

Quorum: Present

There were (7) voting members present, and (7) members are required to conduct business.

Call to Order: The IBC Chair called the meeting to order at 12.03 pm

Review and approval of previous minutes:

Date of the meeting minutes to be approved. April 16, 2026

- **Discussion:** None
- **Motion:** The committee approved the unredacted April meeting minutes as written.
- **Votes:** For/Against/Abstain: 7/0/0

Old Business:

- None

New Business/Additional Topics:

- None

Protocol Review

IBC #108693- Renewal	P.I.: Dr. Jennifer Hill	Training: IBC Laboratory Safety Training IBC Biosafety Training	Biosafety Level Assignment: BSL-2
Title: In Vitro Analysis of Hormone Responses			
<u>Project Overview:</u> The research team uses neuronal cell models to study how hormones influence cellular function. In these studies, cells are grown under controlled laboratory conditions, treated with selected hormones, and then analyzed to measure changes in gene expression and protein levels. These experiments help us better understand how hormone-sensitive tissues, including regions of the brain involved in metabolism and reproduction, respond to hormonal signals.			
<u>NIH Guideline Section</u> NIH guidelines section II.			
<u>Risk Assessment and Discussion</u> Types of biological materials and hazards associated with this protocol include nonviral mammalian expression plasmids, human and murine cell lines, and E-coli DH5a cells. Potential sources of risk include aerosols, contamination, sharp-related injury, and personnel exposure. The committee discussed the proposed precautions outlined in the protocol, including PPE requirements, handling of aerosol-generating equipment, safe handling and disposal of sharps, and determined that the proposed precautions are appropriate and sufficient for the approved work.			
<u>Occupational Health Representative review (if applicable):</u> • Check the biosafety level of Human stable immortalized MC4R/B-Arestin cells			
<u>IBC vote:</u>			

A member made a motion for Modifications required for approval, then Designated Member Review (Chair, Primary Reviewer, Secondary Reviewer). Another member seconded. The required modifications were:

1. Adenoviruses, lentiviruses need to be added to type of hazards section.
2. There is no information on how viruses will be used in this current protocol and the human cell lines are listed as BSL1, which is incorrect. If amendments have been submitted previously for virus work this information must be added here on viruses used and how they will be worked with.
3. Personnel must update IBC biosafety training.
4. Discuss work with viruses.
5. List all locations in C9.
6. Add an SOP for the FACS sorting in 233A. Sample SOP is on the IBC website. Please adjust to to your experiemental details. Please correct to FACSDiscover with the BSC rather than the FACS Aria.
7. Please choose appropriate Exposure plan specific to your laboratory and revise to your use
8. Refresh to FACSDiscover with BSC
9. BSL2 virus vector and human cell line work should not be performed in [REDACTED] as it is BSL1
10. Lenti and adeno vectors? pAdtrack?
11. 293 cell used to produce lenti and adenoviruses.
12. Please add Appendix H for human cells lines and include the risks of working with human cells lines.
13. Section VIII-F of BMBL is not relevant

Total Votes: 7, For: 7, Against: 0, Abstain: 0

IBC #108696 - Renewal	P.I.: Dr. William Crawley	Training: IBC Biosafety Training and IBC Laboratory Safety Training	Biosafety Level Assignment: BSL-2
Title: Intestinal Epithelial Cell Differentiation			

Project Overview:

The general objective of the research team will be to investigate the molecules regulating intestinal epithelial cell differentiation in mammals. The team is interested in how these epithelial cells make their absorptive apical surface, known as the "brush border". Specifically, they will be focusing on a group of proteins that form an adhesion complex that regulates the formation of the brush border during intestinal epithelial cell differentiation. Loss of this adhesion complex is known to correlate with tumor formation in the gut.

NIH Guideline Section

Section III-D-1-a and Section III-D-3-a.

Risk Assessment and Discussion

Types of biological/chemical hazards associated with this protocol are as follows,

- Lentivirus
- Bacteria (DH5alpha, BL21)
- Cell lines
- Genes
- Vectors

Potential risks include mobilization of these viral genes into infective particles, sharps injuries, and waste disposal. The committee discussed the proposed precautions outlined in the protocol, such as PPE requirements, using proper microbiological techniques, and use of biosafety cabinets, and determined that the proposed precautions are appropriate and sufficient.

Occupational Health Representative review (if applicable):

- None

IBC vote:

A member made a motion for 'Modifications required for approval, then Designated Member Review (Chair). Another member seconded. The required modifications were:

1. Section D.1 lists the genes, Raf1, Harmonin, Ace2, S. spike protein, Myo5a, Myo5b. Please also list them in B.3 for consistency.
2. Please provide information on Myo7b in D.1
3. Please specify the name of the lentivirus. Add bacterial cell lines.

Total Votes: 7, For: 7, Against: 0, Abstain: 0

Biosafety Officers' Report:

- Dr. Wooten provided an update

Review of incidents: none

Inspections/Ongoing oversight: none

IBC training for members: none

Public comments: none

Adjournment: The IBC Chair moved to adjourn the meeting at 12.30 PM. The next meeting is scheduled for June 18, at 12.00 PM via MS Teams and in-person (HEB 233).