University of Nebraska – Lincoln Institutional Biosafety Committee

Minutes of Regular IBC Meeting

Date: July 14, 2025

Location: Remote via Zoom
Call to Order: D. Loy called the meeting to order at 2:32 PM
Members Present: H. Blair (BSO), K. Heath (Animal SME), A. Hilske (Plant SME), D. Loy (Chair), A. Mitra (Plant SME), K. O'Neill (Community Member), W. Niu (Member), M. Wiebe (Member)
Members Absent: T. George (Community Member), D. Petrik (Community Member), N. Sexton (Member), D. Zinniel (Lab Rep)
Quorum Met
Ex-Officio Advisors: D. Hamernik
Others: E. Abdollahi, R. Cederberg, K. Evans, L. Gregurek, T. Helikar, A. Jungck, L. Pingault, E. Schulz, A. Velez
Review of Minutes from 6/9/2025 Meeting:
Motion to approve minutes made by A. Mitra, 2nd by K. Heath
For: Minutes approved unanimously as written.
Against: None
Abstained: None
Declaration of Conflicts of Interest: None.

I. PUBLIC SESSION

A. Old Business:

1. Tabled Protocol registrations: None

2. Protocols with Contingencies Met:

NuRamp ID:	1465
Form ID:	**25775**
TITLE:	**Wheat curl mite and aphid transmitted viruses in cereal crops.**
PI:	**Shaonpius Mondal**
DEPT:	Entomology
Project Biosafety Level:	BSL-1, ACL-2 (Arthropod), BSL-2-P (Plant)
NIH Guidelines reference:	III-F-1, III-E-2, III-E-2-a, III-E-2-b-(2), III-D-4-a
Date of IBC Review:	**1/13/2025**
IBC MOTION:	Approve with the following contingencies: • Personnel complete training, a satisfactory pre-approval survey is completed, and plants treated with pathogens are autoclaved prior to disposal.
IBC ACTION:	***Adopted by voice vote***
PROTOCOL NOTES:	
Date of PI Response:	**6/11/2025**

PI Response:	Training has been completed by all lab members.
Additional Comments:	ABSO completed a pre-approval survey, all findings have been corrected and PI will autoclave any plant material that contains pathogens.

NuRamp ID:	**1362**
Form ID:	**26065**
TITLE:	**Understanding Arthropod-borne infection, replication mechanisms, codon usage, and host influences on the virus genome**
PI:	**Nicole Sexton**
DEPT:	School of Biological Sciences
Project Biosafety Level:	**BSL-2, ACL-2 (Arthropod)**
NIH Guidelines reference:	III-F-1, III-F-8, C-I, C-II, III-E, III-E-1, III-D-1-a, III-D-1-b, III-D-2-a, III-D-3-a
Date of IBC Review:	**6/9/2025**
IBC MOTION:	Approve with the following contingencies: • Required training is completed
IBC ACTION:	***Adopted by voice vote***

PROTOCOL NOTES:

Date of PI Response:	**6/11/2025**
PI Response:	Training has been completed by all lab members.
Additional Comments:	None.

NuRamp ID:	1293
Form ID:	**26055**
TITLE:	**Cytokine effect on T cell plasticity and imbalance phenotype in normal context and pathogenic infection by Influenza and In Vitro Evaluation of Drug Combination Efficacy Against Various Respiratory Pathogens**
PI:	**Rada Amin Ali**
DEPT:	Biochemistry
Project Biosafety Level:	**BSL-2, ABSL-2 (Animal)**
NIH Guidelines reference:	N/A
Date of IBC Review:	**6/9/2025**
IBC MOTION:	Approve with the following contingencies: • Lab personnel complete training
IBC ACTION:	***Adopted by voice vote***

PROTOCOL NOTES:

Date of PI Response:	**6/17/2025**
PI Response:	I have attached on page 5 the certificate for the requested training.

Additional Comments:	PI notified our office 7/1/25 that she has resigned and the Senior Research Associate on the protocol, will be submitting an Amendment to transfer the protocol to herself. The work continues to be funded by Tomas Helikar.

B. New Business:

1. New Protocol Registrations:

NuRamp ID:	1479
Form ID:	**25842**
TITLE:	**Biotechnology of risk assessment using genetically engineered microbes**
PI:	**Samodha Fernando**
DEPT:	Animal Science
Project Biosafety Level:	ABSL-2 (Animal), BSL-1-P (Plant)
NIH *Guidelines* reference:	III-D-4, III-D-4-a
IBC MOTION:	Approve as written.
Contingencies/Issues:	• None
Made by:	K. Heath
Seconded by:	A. Mitra
IBC ACTION:	***Adopted by voice vote***
For:	8 members
Against:	0 members
Abstained:	None

PROTOCOL REVIEW SUMMARY:

Review of Protocol:	The IBC Chair provided an overview of the protocol and opened discussion to the committee.
Summary of Project(s):	Genetically engineered microbes will be fed to beef cattle to evaluate persistence and transmission of the engineered gene within the gut and soil environments.
Risk Assessment Considerations:	
Genetic Material:	N/A
Vector system:	N/A
Microbiological agents:	Recombinant Bacillus pumilis
Organisms:	Cattle
OTCC:	Cattle fecal, rumen, illium, and oral samples
Toxins:	N/A
IRB protocol(s):	☐Yes ☑No **SROC protocol:** ☐Yes ☑No
IACUC Protocol(s):	☑Yes ☐No

Facility/Safety Summary:	The Committee reviewed the description of the facilities to be used and safety procedures and determined the facilities are appropriate for	
Safety Concerns:	None.	
Facility Concerns:	None.	
Vaccines/Medical Surveillance:	None.	
Administrative issues:		
Current safety training for staff:	Yes.	
Current equipment certification:	Yes.	
Date/Result of Pre-approval Safety Survey:	N/A	**Findings**: The spaces listed on protocol 1479 are inspected by IACUC.
IBC Discussion:	This project was originally proposed to be performed at a feed lot, but containment requirements were incompatible with the facility. New project described reflects the indoor resolution. NIH OSP was consulted to confirm that BSL1 and ABSL2 are appropriate containment for the described work.	

2. Protocol Amendments:

NuRamp ID:	**1463**
Form ID:	**26090**
TITLE:	**Understanding cell structure assembly and intercellular communication**
PI:	**Qing Tang**
DEPT:	Biochemistry
Protocol Biosafety Level:	**BSL-2**
NIH Guidelines reference:	III-F-8, C-I, C-II, III-E, III-D-3-a
IBC MOTION:	Approve as written.
Contingencies/Issues:	• None
Made by:	W. Niu
Seconded by:	H. Blair
IBC ACTION:	***Adopted by voice vote***
For:	8 members
Against:	0 members
Abstained:	None
PROTOCOL NOTES:	
Review of Protocol:	The IBC Chair provided an overview of the protocol and opened discussion to the committee.
Summary of Project(s):	Using lentivirus in cell lines, the lab will express and analyze how key cytoskeletal proteins function at the nanometer scale within tunneling nanotubes. These methods, along with

	microscopy are used to study structural proteins and their role in diverse cellular functions.
Changes to the Protocol:	Added 3 new mammalian cell lines: mouse embryonic fibroblast (MEF), Kidney Fibroblast African Green Monkey, and human retina epithelial cells Updated gene sequences and DNA plasmid inventory. New disinfectant and personnel.
Risk Assessment Considerations:	
Genetic Material:	Cytoskeletal proteins
Vector system:	N/A
Microbiological agents:	N/A
Organisms:	N/A
OTCC:	Mouse embryonic fibroblast, Kidney Fibroblast African Green Monkey, human retina epithelial cells
Toxins:	N/A
IRB protocol(s):	☐Yes ☑No **SROC protocol:** ☐Yes ☑No
IACUC Protocol(s):	☐Yes ☑No
Facility/Safety Summary:	The Committee reviewed the description of the facilities to be used and safety procedures and determined the facilities are appropriate for the proposed containment level and work to be conducted.
Safety Concerns:	None
Facility Concerns:	None
Vaccines/Medical Surveillance:	Hepatitis B Vaccination
Administrative issues:	
Current safety training for staff:	Yes.
Current equipment certification:	Yes.
Date/Result of last EHS Survey:	Annual: 5/30/2025 — **Findings:** No findings.
IBC Discussion:	The Committee had no concerns about this proposal.

NuRamp ID:	**175**
Form ID:	**26035**
TITLE:	**Molecular analysis of biotechnology for pest management, insecticides, insect resistance, and toxin receptor genes**
PI:	**Ana Maria Velez Arango**
DEPT:	Entomology
Protocol Biosafety Level:	**BSL-1, ACL-1 (Arthropod)**
NIH Guidelines reference:	III-F-2, III-F-3, III-F-5, III-E, III-E-2, III-E-2-b, III-E-2-b-(5), III-D-4-a
IBC MOTION:	Approve as written.
Contingencies/Issues:	• None
Made by:	A. Mitra

Seconded by:	K. Heath
IBC ACTION:	***Adopted by voice vote***
For:	8 members
Against:	0 members
Abstained:	None

PROTOCOL NOTES:

Review of Protocol:	The PI provided an overview of the protocol, and the IBC Chair opened discussion to the committee.
Summary of Project(s):	Molecular tools are used to determine the mechanisms of insecticide resistance, to identify novel molecular target sites for novel insecticides (i.e., RNAi), use RNA interference (RNAi) to study gene function in insects, and to evaluate the risk of insecticides on non-target arthropods and the environment.
Changes to the Protocol:	The protocol was updated to include three strains of mosquitoes with the corresponding gene families targeted through RNA interference and personnel were updated.
Risk Assessment Considerations:	
Genetic Material:	Gene families targeted through RNA interference
Vector system:	N/A
Microbiological agents:	N/A
Organisms:	Mosquitoes
OTCC:	N/A
Toxins:	N/A
IRB protocol(s):	☐Yes ☑No **SROC protocol:** ☐Yes ☑No
IACUC Protocol(s):	☐Yes ☑No
Facility/Safety Summary:	The Committee reviewed the description of the facilities to be used and safety procedures and determined the facilities are appropriate for the proposed containment level and work to be conducted.
Safety Concerns:	None.
Facility Concerns:	None.
Vaccines/Medical Surveillance:	None.
Administrative issues:	
Current safety training for staff:	Yes.
Current equipment certification:	Yes.

Date/Result of last EHS Survey:	Annual	**Findings:**
	3/21/2025	All findings addressed.

IBC Discussion:	The Committee discussed the containment protocols for mosquitoes. The Committee asked the PI about how they will be targeting gene sequencing while using RNAi. PI informed committee they are testing mosquitoes that are naturally resistant to pesticide and using RNAi to determine what genes influence pesticide resistance.

NuRamp ID:	**661**
Form ID:	**26060**
TITLE:	**Validation of food processing methods through microbial challenge testing**
PI:	**Andreia Bianchini Huebner**
DEPT:	Food Science and Technology
REVIEWED BY:	Full IBC Committee
Protocol Biosafety Level:	**BSL-2**
NIH Guidelines reference:	N/A
IBC MOTION:	Approve as written.
Contingencies/Issues:	• None
Made by:	D. Loy
Seconded by:	A. Mitra
IBC ACTION:	***Adopted by voice vote***
For:	8 members
Against:	0 members
Abstained:	None

PROTOCOL NOTES:

Review of Protocol:	The IBC Chair provided an overview of the protocol and opened discussion to the committee.
Summary of Project(s):	This research focuses on validating the effectiveness of different food processing methods in killing pathogens, particularly in low-moisture foods.
Changes to the Protocol:	Change PI to Andreia Bianchini-Huebner Updated personnel
Risk Assessment Considerations:	
Genetic Material:	N/A
Vector system:	N/A
Microbiological agents:	N/A
Organisms:	N/A
OTCC:	N/A
Toxins:	N/A
IRB protocol(s):	☐Yes ☑No **SROC protocol:** ☐Yes ☑No
IACUC Protocol(s):	☐Yes ☑No
Facility/Safety Summary:	The Committee reviewed the description of the facilities to be used and safety procedures and determined the facilities are appropriate for the proposed containment level and work to be conducted.
Safety Concerns:	None
Facility Concerns:	None
Vaccines/Medical Surveillance:	None
Administrative issues:	
Current safety training for staff:	Yes.

Current equipment certification:	Yes.	
Date/Result of last EHS Survey:	Annual	**Findings:**
	4/3/2025	No findings.
IBC Discussion:	Previous PI left the institution, and Dr. Bianchini-Huebner wanted to keep projects active.	

NuRamp ID:	**413**
Form ID:	**26076**
TITLE:	**Genetic Improvement of Sorghum and Switchgrass for Energy Uses: Mechanisms controlling the biological pathways**
PI:	**Scott Sattler**
DEPT:	Agronomy and Horticulture
Protocol Biosafety Level:	**BSL-1, ACL-1, BSL-1-P**
NIH Guidelines reference:	III-F-1, III-F-6, III-E, III-E-2, III-E-2-a, III-D-2-a
IBC MOTION:	Approve as written.
Contingencies/Issues:	• None
Made by:	A. Mitra
Seconded by:	W. Niu
IBC ACTION:	***Adopted by voice vote***
For:	8 members
Against:	0 members
Abstained:	None

PROTOCOL NOTES:

Review of Protocol:	The IBC Chair provided an overview of the protocol and opened discussion to the committee.
Summary of Project(s):	The research goals are to improve sorghum and switchgrass for applications ranging from forage to bioenergy uses through the manipulation of biochemical plants controlling these traits.
Changes to the Protocol:	Updated to include material from projects a retired collaborator had in their protocol. Updates include: title, personnel, research description, facilities, research plants, and gene targets.
Risk Assessment Considerations:	
Genetic Material:	Switchgrass phenylpropanoid biosynthesis genes
Vector system:	N/A
Microbiological agents:	N/A
Organisms:	Switchgrass, wheat
OTCC:	N/A
Toxins:	N/A
IRB protocol(s):	☐Yes ☑No **SROC protocol:** ☐Yes ☑No
IACUC Protocol(s):	☐Yes ☑No

Facility/Safety Summary:	The Committee reviewed the description of the facilities to be used and safety procedures and determined the facilities are appropriate for the proposed containment level and work to be conducted.
Safety Concerns:	None
Facility Concerns:	None
Vaccines/Medical Surveillance:	None
Administrative issues:	
Current safety training for staff:	Yes.
Current equipment certification:	Yes.
Date/Result of last EHS Survey:	Annual / 1/10/2025 — **Findings:** All findings addressed.
IBC Discussion:	The Committee discussed how the projects on this protocol and Dr. Sattler's other protocol are separated. Dr. Sattler added material from retired colleague's lab to his work protocol.

NuRamp ID:	**286**
Form ID:	**26097**
TITLE:	**Microbial Perturbation of Gastrointestinal Homeostasis**
PI:	**Amanda Ramer-Tait**
DEPT:	Food Science and Technology
Protocol Biosafety Level:	**BSL-2, ABSL-2 (Animal)**
NIH Guidelines reference:	III-F-4, III-F-5, III-F-8, C-II, C-VI, C-VII, III-E, III-D-4-a, III-D-4-b
IBC MOTION:	Approve as written.
Contingencies/Issues:	• None
Made by:	D. Loy
Seconded by:	K. Heath
IBC ACTION:	***Adopted by voice vote***
For:	8 members
Against:	0 members
Abstained:	None

PROTOCOL NOTES:

Review of Protocol:	The IBC Chair provided an overview of the protocol and opened discussion to the committee.
Summary of Project(s):	Transform human health through discovery and application of the principles and mechanisms underlying host-diet-microbiota interactions, using an assortment of studies in our lab with various strains of gut bacteria.
Changes to the Protocol:	Adding new strains for bacterial species (*B. uniforms*, *F. duncaniae*, and *E. coli*, lab adapted, non-pathogenic) already approved on our protocol. Adding 1 new cell line (HUVEC) Updated personnel and pathogen inventory.
Risk Assessment Considerations:	

Genetic Material:	N/A
Vector system:	N/A
Microbiological agents:	New strains of *B. uniforms*, *F. duncaniae*, and non-pathogenic *E. coli*
Organisms:	N/A
OTCC:	HUVEC
Toxins:	N/A
IRB protocol(s):	☐Yes ☑No **SROC protocol:** ☐Yes ☑No
IACUC Protocol(s):	☑Yes ☐No
Facility/Safety Summary:	The Committee reviewed the description of the facilities to be used and safety procedures and determined the facilities are appropriate for the proposed containment level and work to be conducted.
Safety Concerns:	None
Facility Concerns:	None
Vaccines/Medical Surveillance:	Hepatitis B vaccination
Administrative issues:	
Current safety training for staff:	Yes.
Current equipment certification:	Yes.
Date/Result of last EHS Survey:	Annual / **Findings:** 3/31/2025 / All findings addressed.
IBC Discussion:	The Committee determined this amendment is in line with the PI's previous work and had no concerns about the new material.

NuRamp ID:	**35**
Form ID:	**26068**
TITLE:	**Genetic Improvement of Sorghum for Bioenergy, Feed, and Food Uses and Responses to Pathogens**
PI:	**Scott Sattler**
DEPT:	Agronomy and Horticulture
Protocol Biosafety Level:	**BSL-2, BSL-2-P**
NIH Guidelines reference:	III-F-5, III-F-8, C-II, III-E, III-E-2, III-E-2-a
IBC MOTION:	Approve with the following contingencies:
Contingencies/Issues:	• Dr. Sattler provide an updated pathogen inventory, confirm location and status of pathogens, and update permits
Made by:	A. Mitra
Seconded by:	D. Loy
IBC ACTION:	***Adopted by voice vote***
For:	8 members
Against:	0 members None

Abstained:	

PROTOCOL NOTES:

Review of Protocol:	The IBC Chair provided an overview of the protocol and opened discussion to the committee.
Summary of Project(s):	The objectives of this project will focus on the genetic, biochemical, and physiological mechanisms affecting the composition of sorghum biomass and grain.
Changes to the Protocol:	1. Change in PI, previous PI is retired, and Dr. Sattler will be taking over this protocol 2. Update personnel 3. Add APHIS permits 4. Updated research description for transgenic wheat lines
Risk Assessment Considerations:	
Genetic Material:	N/A
Vector system:	N/A
Microbiological agents:	N/A
Organisms:	N/A
OTCC:	N/A
Toxins:	N/A
IRB protocol(s):	☐Yes ☑No **SROC protocol:** ☐Yes ☑No
IACUC Protocol(s):	☐Yes ☑No
Facility/Safety Summary:	The Committee reviewed the description of the facilities to be used and safety procedures and determined the facilities are appropriate for the proposed containment level and work to be conducted.
Safety Concerns:	None
Facility Concerns:	None
Vaccines/Medical Surveillance:	None
Administrative issues:	
Current safety training for staff:	Yes.
Current equipment certification:	Yes.

Date/Result of last EHS Survey:	Annual	**Findings:**
	1/22/2025	No findings.

IBC Discussion:	The Committee discussed the pathogen inventory and permits still being in the previous PI's name and wanted to see both updated accordingly.

NuRamp ID:	**1293**
Form ID:	**26118**
TITLE:	**Cytokine effect on T cell plasticity and imbalance phenotype in normal context and pathogenic infection by Influenza and In Vitro Evaluation of Drug Combination Efficacy Against Various Respiratory Pathogens**

PI:	**Elham Abdollahi**
DEPT:	Biochemistry
Protocol Biosafety Level:	**BSL-2, ABSL-2 (Animal)**
NIH Guidelines reference:	N/A
IBC MOTION:	Approve with the following contingencies:
Contingencies/Issues:	• Dr. Helikar be made the PI on the protocol, all training requirements are met, and IACP provide updates at monthly meeting regarding status.
Made by:	K. Heath
Seconded by:	M. Wiebe
IBC ACTION:	***Adopted by voice vote***
For:	8 members
Against:	0 members
Abstained:	None

PROTOCOL NOTES:

Review of Protocol:	The PI and co-PI provided an overview of the protocol, and the IBC chair opened discussion to the committee.
Summary of Project(s):	This project aims to assess the antiviral efficacy of the combinatorial drug A and drug B against various respiratory pathogens in vitro and determine the drug combination's efficacy and toxicity on infected cells.
Changes to the Protocol:	Change in PI from Dr. Amin to Dr. Abdollahi
Risk Assessment Considerations:	
Genetic Material:	N/A
Vector system:	N/A
Microbiological agents:	N/A
Organisms:	N/A
OTCC:	N/A
Toxins:	N/A
IRB protocol(s):	☐Yes ☑No **SROC protocol:** ☐Yes ☑No
IACUC Protocol(s):	☑Yes ☐No
Facility/Safety Summary:	The Committee reviewed the description of the facilities to be used and safety procedures and determined the facilities are appropriate for the proposed containment level and work to be conducted.
Safety Concerns:	None
Facility Concerns:	None
Vaccines/Medical Surveillance:	None
Administrative issues:	
Current safety training for staff:	Yes.
Current equipment certification:	Yes.
Date/Result of last EHS Survey:	Annual 4/30/2025 — **Findings:** No findings.

IBC Discussion:	The IACP Director informed the Committee his staff would be working closely with Dr. Abdollahi and providing project updates. The Committee wanted to see the protocol under a tenured faculty member's name and to match the PI (Dr. Helikar) on the IACUC protocol associated with the project. Dr. Helikar was previously listed as a co-PI on this protocol and told the Committee during the meeting he was willing to be PI.

3. Notice of NIH Exempt Protocol Approvals: None

4. Notice of Administratively Approved Amendments:

NuRamp ID:	719
Form ID:	**26070**
TITLE:	**The role of fatty acids in placenta, liver, brain, eye and fetal health**
PI:	**Sathish Kumar Natarajan**
DEPT:	Nutrition and Health Sciences
Project Biosafety Level:	BSL-2, ABSL-2 (Animal)
NIH Guidelines reference:	III-F-1, III-F-2, III-F-8, C-II, C-VIII, III-E, III-D-1-a, III-D-2-a, III-D-3-a
PROTOCOL NOTES:	
IRB protocol:	☐Yes ☑No **SROC protocol:** ☐Yes ☑No
IACUC Protocol:	☑Yes ☐No
Objective of Study:	Opiod toxicity study.
Changes to the Protocol:	Added primary rat neuronal cells and described new in vitro project testing opioids in neuronal and placental cells.
Review comments:	None.

5. Notice of Minor Modification Forms Approved:

See attached report for a list of all Minor Modification forms received and approved since the last meeting.

6. Notice of Protocol Annual Updates Received:

See the attached report for a list of all Annual Update forms received and approved since the last meeting.

7. Notice of Protocol Terminations:

NuRamp ID:	**1192**
TITLE:	**UNL iGEM team**
PI:	**Jiantao Guo**
DEPT:	Chemistry
Project Biosafety Level:	**BSL-1**

Project Termination Date:	06/11/2025
PROTOCOL NOTES:	
IRB protocol(s):	☐Yes ☑No **SROC protocol:** ☐Yes ☑No
IACUC Protocol(s):	☐Yes ☑No
Disposition of rDNA and agents:	All biological materials have been autoclaved and discarded.

NuRamp ID:	**1340**
TITLE:	**Independent Verification and Validation of Advanced Personal Protective Biosystems for the Defense Advanced Research Projects Agency**
PI:	**Joshua Santarpia**
DEPT:	Biological Systems Engineering
Project Biosafety Level:	**BSL-3, ABSL-3 (Animal)**
Project Termination Date:	**06/19/2025**
PROTOCOL NOTES:	
IRB protocol(s):	☐Yes ☑No **SROC protocol:** ☐Yes ☑No
IACUC Protocol(s):	☑Yes ☐No
Disposition of rDNA and agents:	All agent stocks autoclaved.

C. Other Business:

1. EHS Report

- See attached report

II. ADJOURN

Motion: D. Loy
2nd: K. Heath
Time Adjourned: 3:44 PM

Minor Modification Forms Approved since Last IBC Meeting

Form ID	IBC Project ID	Approval Date	ProjectTitle	Protocol Status	Form Status	Lead PI	Form Changes
UNL-00026115	UNL-00026115	7/1/2025	Strategies for Biological Agent Treatment Using Natural and Novel Materials	Submitted to BSO	Approved	Joshua Santarpia	Facilities

IBC Annual Update Form Approvals
since last IBC Meeting

Form ID	Approval Date	IBC Project ID	Project Title	Protocol Status	Form Status	Lead PI	Amendment Needed
UNL-00026113	7/2/2025	UNL-00001377	Evaluating the effect of dietary interventions on human health and the gut microbiome.	Approved	Approved	Edward Deehan	**No**
UNL-00026110	6/26/2025	UNL-00001341	Strategies for Biological Agent Treatment Using Natural and Novel Materials	Submitted to BSO	Approved	Joshua Santarpia	**No**
UNL-00026109	6/25/2025	UNL-00001449	An evaluation of Chloroviruses in an animal model of Amyotrophic Lateral Sclerosis	Approved	Approved	Tom Petro	**No**
UNL-00026107	6/25/2025	UNL-00001336	BVDV challenge of CD46-edited calves	Approved	Approved	Brian Vander Ley	**No**
UNL-00026103	6/18/2025	UNL-00000048	Oxidative Stress and Brain Diseases	Approved	Approved	Rodrigo Franco Cruz	**No**
UNL-00026101	7/2/2025	UNL-00001450	Understanding the Cognitive and Brain Health in Relation to Diet and Dietary Interventions	Approved	Approved	Aron Keith Barbey	**No**
UNL-00026100	6/17/2025	UNL-00000221	Engineering commensal bacteria and viruses for therapeutic application Research	Approved	Approved	Shi-Hua Xiang	**No**
UNL-00026095	6/13/2025	UNL-00000162	Regulation of eukaryotic gene expression	Approved	Approved	Audrey Atkin	**No**
UNL-00026093	6/11/2025	UNL-00000188	Plant Mitochondrial Genomic Research	Approved	Approved	Alan Christensen	**No**
UNL-00025395	6/11/2025	UNL-00001441	One Year Duration of Immunity Study in Cats to Demonstrate the Efficacy of a Feline Leukemia Vaccine, Killed Virus	Approved	Approved	Paige Crumley	**No**
UNL-00026089	6/10/2025	UNL-00001375	The molecular interaction between corn and common rust	Approved	Approved	Saet-Byul Kim	**No**
UNL-00026087	6/10/2025	UNL-00001447	Expression of hydrolase enzymes in biofuel crop plants.	Approved	Approved	Nicole Buan	**No**
UNL-00026086	6/10/2025	UNL-00000183	Genetic manipulation of anaerobic microbes	Approved	Approved	Nicole Buan	**No**
UNL-00026085	6/10/2025	UNL-00000019	Gene regulation by dietary compounds	Approved	Approved	Janos Zempleni	**No**
UNL-00026084	6/10/2025	UNL-00000534	Impact of environmental factors on Drosophila development and physiology	Approved	Approved	Kristi Montooth	**No**
UNL-00026082	6/5/2025	UNL-00000282	Etiology, epidemiology and management of wheat and ornamental plant diseases in Nebraska	Approved	Approved	Stephen Wegulo	**No**

EHS/Biosafety Officer Report for IBC meeting on 7/14/2025

Biosafety Recurring Audits Since last meeting:

Departments visited included Entomology, Engineering, School of Biological Sciences, Psychology

BSL-2	BSL-1
• 6 labs	• 6 labs

Pre-approval Audits:

- None

Most cited deficiencies

Deficiency	EHS Checklist Code	Number of Deficiencies	Number Corrected
Disinfectants are expired or containers not appropriately dated	BIO01	1	0
Plants no associated with the work are present in the lab	BIO02	1	0
Biohazardous spill kit issue	BIO03	1	0
Emergency eyewash or safety shower concerns	CHE10	3	0
Handwashing sink and/or supplies not available	LAB10	1	0

BSL-3 Lab Updates

- MODL and BCL spring EHS inspection and inventory check were completed.
- Select Agent Renewal Inspection with USDA occurred.
- HVAC and facilities primary contact change.

Post approval Monitoring since Last IBC meeting:

- None

Other Activities: *(Regulation updates, news, new/revised policies, etc.)*

- Science article entitled "*NIH suspends dozens of pathogen studies over 'gain-of-function' concerns*"