



**NISBRE  
2026**

# **10th National IDeA Symposium of Biomedical Research Excellence**

June 14-17, 2026 | Bethesda North Marriott Hotel  
and Conference Center, Rockville, Maryland

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# A Welcome Message from the Co-Chairs

We welcome you to the 10th Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE) at the Bethesda North Marriott Hotel and Conference Center in Rockville, Maryland, from June 14–17, 2026.

This year's conference will showcase the scientific and training achievements of the National Institute of General Medical Sciences (NIGMS) IDeA program. The IDeA program supports centers of excellence and trains biomedical scientists in IDeA-eligible states. On behalf of the NISBRE Organizing Committee, we are so glad that you have joined us to highlight the activities and successes of the IDeA investigators.

The meeting program includes high-level scientific presentations in a variety of disciplines. The agenda includes plenary panels and keynote presentations in varied areas of scientific investigation, poster presentations of IDeA scientists, programmatic discussion forums, and professional development workshops. The workshops are designed so that the attendees acquire new scientific and career skills. We expect over 1,000 attendees ranging from undergraduate and graduate students to postdoctoral fellows, junior and senior faculty and staff from each COBRE, INBRE, CTR, I-RED programs including participation by programmatic and scientific staff from most NIH institutes.

A goal of NISBRE is to maximize opportunities for networking and collaboration. NISBRE will provide exciting opportunities to learn from and interact with colleagues and confer with NIH scientific and programmatic staff. This year's conference will use new technology, allowing communication among all attendees and opportunities to meet to discuss collaborations and individual presentations. We hope that your interactions will facilitate sharing and best practices within IDeA programs.

We are so glad that you have joined us for this important national conference highlighting NIH IDeA Programs. Thanks for joining us this year in Maryland!

Gus Kousoulas, PhD, Co-Chair

Rick Bevins, PhD, Co-Chair

*The National Association of IDeA Principal Investigators (NAIPI) is the collective voice of all of us in the IDeA community. NAIPI aims to protect and promote the IDeA programs.*

*Louisiana State University (LSU) has been awarded the NIH:NIGMS U13 grant (5U13GM143856-04 "National IDeA Symposium of Biomedical Research Excellence-NISBRE) to organize the 2022 (Virtual) and 2024 and 2026 (In person) NISBRE Conferences.*

*University of Nebraska-Lincoln (UNL) is MPI on the U13 grant to organize the 2024 and 2026 in-person NISBRE Conferences.*

# ORGANIZING COMMITTEE

**K. Gus Kousoulas, Ph.D., Chair**

Principal Investigator, Louisiana Biomedical Research Network (LBRN), Louisiana State University

**Rick Bevins, Ph.D., Co-Chair**

Principal Investigator, Rural Drug Addiction Research COBRE, University of Nebraska – Lincoln

**Lucy Liaw, Ph.D.**

COBRE PI of Mesenchymal and Neural Regulation of Metabolic Networks, Maine Senior Scientist and Director of Research Training and Education, MaineHealth Institute for Research Secretary, National Association of IDeA Principal Investigators (NAIPI)

**R. Scott Seville, Ph.D.**

Director, NIH IDeA Wyoming INBRE, University of Wyoming

**Sally L. Hodder, M.D.**

Associate Vice President, Clinical and Translational Research, Director, West Virginia Clinical and Translational Science Institute, Preeminent Scholar Chair and Professor of Medicine, West Virginia University

**Alan J. Tackett, Ph.D.**

Distinguished Professor of Biochemistry and Molecular Biology, Deputy Director, Winthrop P. Rockefeller Cancer Institute, Executive Associate Dean for Research, UAMS College of Medicine Executive Director, Arkansas Biosciences Institute, Director, IDeA National Resource for Quantitative Proteomics, University of Arkansas for Medical Sciences, Principal Investigator, COBRE Center for Translational Pediatric Research, Arkansas Children’s Research Institute, President, National Association of IDeA Principal Investigators (NAIPI)

**Olivia George, Ph.D.**

Assistant Professor of Biology Campus Co-Coordinator, Hawaii INBRE, University of Hawaii, West Oahu

**Mercedes Rubio, Ph.D.**

Director, Division for Research Capacity Building (DRCB), NIGMS-NIH

**Jessica M. Faupel-Badger, Ph.D., MPH**

Chief, Networks and Development Programs Branch, Division for Research Capacity Building (DRCB), NIGMS-NIH

**Olga Kovbasnjuk, Ph.D.**

Program Director, Division for Research Capacity Building (DRCB), NIGMS-NIH

# ORGANIZING SUPPORT TEAM

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Louisiana Biomedical Research Network (LBRN), Program Manager and Assistant Director, Louisiana State University

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## **Harikrishan Mohan**

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## **Christella Nelson**

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## **Sonet Weed**

University of Arkansas Medical Sciences (UAMS), Office of Research, Executive Director COBRE Center for Translational Pediatric Research, Administrative Director, Arkansas Children's Research Institute

# THANK YOU TO OUR SPONSORS!

We encourage you to stop by booths during meals, at breaks, and before or after each day's activities to visit with our sponsors. Booths are located in the Grand Foyer.

## SPONSOR BOOTHS

### Diamond Sponsor

IDeA National Resource for Quantitative Proteomics  
Louisiana State University  
Louisiana State University Health Sciences Center Shreveport  
National Association of IDeA Principal Investigators  
Piestar, Inc.

### Gold Sponsor

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### Silver Sponsor

Advance Rhode Island Clinical and Translational Research (Advance RI-CTR)  
Alaska INBRE Community Based Participatory Research Core  
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EPSCoR/IDeA Foundation  
Louisiana Clinical and Translational Science (LA CaTS) Center IDeA-CTR  
University of Kentucky SuRE Resource Center  
University of North Dakota  
Weissman Hood Institute at Touro University  
West Virginia University

### Bronze Sponsor

Arkansas Biosciences Institute  
Larner College of Medicine & the University of Vermont  
Pacific Northwest Cryo-EM Center  
Program Evaluation & Administrative Research Leaders of IDeA  
University of Louisville

## ADDITIONAL SPONSORS

We want to express our gratitude to our NISBRE2026 sponsors who have provided additional financial support for **Science and Mentor Awards** and/or **Travel Awards**.

A full list of all our sponsors is provided on our conference website and on the NISBRE app. Sponsors will be announced during our awards ceremony and appear on our general session slides. Our sincere thanks to each of these sponsors for your support of our research scholars during this year's event!

# NISBRE2026

## Detailed Conference Program (ONLINE ONLY)

*Organized by Date, Time, and Session, with Presenter Information*

### SUNDAY, JUNE 14, 2026

9:00AM – 4:00PM

Sunday, June 14

Forest Glen

#### **Closed Meeting for Grant Administrators, Program Managers, and Evaluators (Program Evaluation & Administrative Research Leaders, PEARL)**

**Organizer:** Julie Benson, Associate Director, Alaska INBRE, University of Alaska Fairbanks, INBRE, Alaska INBRE

This pre-conference meeting is open to grant administrators, program managers, and evaluators of COBRE, INBRE, and CTR programs. Join this Program Evaluation and Administration of Research Leaders (PEARL) session to network with others in similar professional roles. Bring your questions and share your experiences related to IDeA program coordination, implementation, and evaluation. We encourage all current PEARL members and any grant administrator, program manager, and evaluator who are interested in learning more about the benefits of PEARL to attend.

12:30PM – 2:15PM

Sunday, June 14

Salon B

#### **The Basics of Grant Writing and Resubmissions (R-Mechanisms)**

**Moderator:** Joan Lakoski, Director, Professional Development, West Virginia University, CTR, West Virginia Clinical and Translational Science Institute

**Panelist:** Samithamby Jeyaseelan, Professor, Pathobiological Sciences, Louisiana State University and A&M College, COBRE, Center for Lung Biology and Disease

**Panelist:** Timothy Nelson, Professor, Associate Director, Psychology, University of Nebraska-Lincoln, COBRE, Rural Drug Addiction Research Center

**Panelist:** Robert Eoff, Professor, Biochemistry and Molecular Biology / College of Medicine, University of Arkansas for Medical Sciences, COBRE, Center for Molecular Interactions in Cancer (CMIC)

Join us for a session with experienced NIH reviewers highlighting review criteria and study section discussions that have been recently revised. Hear experts talk about the review process, give their advice about what are often overlooked sections of an application, and provide general tips for proposal success. Learn about finding relevant grant mechanisms and program announcements and gain insight into the grant review and resubmission processes from the reviewer lens. Bring your questions and join in this exciting session!

12:30PM – 3:45PM

Sunday, June 14

Salon A

#### **The Fundamentals of Proteomics**

**Organizer:** Karen Beenken, Associate Professor, Department of Biochemistry and Molecular Biology, University of Arkansas for Medical Sciences, IDeA National Resource for Quantitative Proteomics

**Organizer:** Dennis Province, Principal Staff Scientist, Department of Biochemistry and Molecular Biology, University of Arkansas for Medical Sciences, IDeA National Resource for Quantitative Proteomics

This workshop is designed to provide an overview of quantitative proteomics workflows including training on experimental design, and ways to avoid sample preparation pitfalls. Additionally, we will discuss bioinformatics analysis and how to leverage proteomics data in support of publications and grant submissions.

2:30PM – 3:45PM

Sunday, June 14

Salon C

### **Tips for Publishing Science**

**Moderator:** Anne Kazak, Professor, Pediatrics, Nemours Children's Health, COBRE, Research Expanding Access to Child Health (REACH)

**Panelist:** Alan Daugherty, Professor, Department of Physiology, University of Kentucky, COBRE, University of Kentucky Diabetes Prevention COBRE

This session brings together distinguished scientists on strategies for publishing scientific research. Ask your questions and hear about considerations in selecting a scientific journal, formatting best practices, and innovative ways to translate your research findings to both scientifically trained and community audiences.

2:30PM – 3:45PM

Sunday, June 14

Salon B

### **Strategic Foundations for Research Success**

**Moderator:** Nathan Meier, Associate Vice Chancellor for Research, Capacity and Competitiveness, Office of Research and Innovation, University of Nebraska-Lincoln

**Panelist:** David Fay, Professor, PD/PI Wyoming INBRE, Molecular Biology, University of Wyoming, INBRE, Wyoming INBRE

**Panelist:** Scott Garrett, Associate Professor, Admin Director, Pathology, University of North Dakota, INBRE, ND INBRE

**Panelist:** Prakash Nagarkatti, Professor, Pathology Microbiology and Immunology, University of South Carolina, COBRE, Center for Dietary Supplements and Inflammation

**Panelist:** Carly Cummings, Senior Director, Office of Research and Faculty Development, University of Idaho, Office of Research and Economic Development

Join us for a panel discussion focused on strategic foundations for research success. Panelists will share strategies for pursuing research excellence as a trainee, across the faculty lifecycle, and as a principal investigator. This session will offer research development and programmatic perspectives, highlighting best-practice approaches that are often under-mentored, including: leveraging institutional resources, designing sustainable research programs, and positioning early projects for long-term impact and funding. Questions from trainees, junior faculty, and principal investigators are encouraged!

2:30PM – 5:00PM

Sunday, June 14

Salon D

### **Closed Meeting for National Association of IDeA Principal Investigators (NAIPI)**

**Organizer:** Alan Tackett, Distinguished Professor, Biochemistry and Molecular Biology, University of Arkansas for Medical Sciences, COBRE, Center for Translational Pediatric Research

**Organizer:** Jessica Molesworth, Executive Director, EPSCoR/IDeA Foundation

This pre-conference meeting serves as the annual meeting of the NAIPI membership, which includes all IDeA COBRE, INBRE, CTR, and I-RED principal investigators. Members of the NAIPI executive leadership and Jessica Molesworth (Executive Director, EPSCoR/IDeA Foundation) will overview upcoming opportunities and priorities that impact all IDeA funding mechanisms.

4:00PM – 5:00PM

Sunday, June 14

Salon C

### **Student and Trainee Meet-and-Greet**

**Organizer:** Lucy Liaw, Director and Faculty Scientist, Research Training and Education, MaineHealth Institute for Research, COBRE, COBRE in Metabolic Networks

Are you a student or trainee attending NISBRE2026? We hope you will join us for this pre-conference workshop where we will discuss tips for making the most out of attendance at the national conference. Meet other students, trainees, and postdocs before the conference activities begin. Gain new connections and expand your network of biomedical research colleagues prior to attending the welcome reception. All undergraduate students, graduate students, clinical trainees, and postdoctoral research associates are encouraged to attend!

4:00PM – 5:00PM

Sunday, June 14

Salon B

### **Empowering Biomedical Innovation: Inspiring Entrepreneurship Across All Academic Levels**

**Moderator:** Tina Thornton, Assistant Professor, Medicine, University of Vermont, IDeA Entrepreneurship Program

**Panelist:** Eddie Billingslea, Small Business Strategy Coordinator, OD, NIGMS/NIH, NIH Staff

**Panelist:** Eric Peterson, Professor, Pharmacology and Toxicology, University of Arkansas for Medical Sciences, INBRE

**Panelist:** Lisa Friis, Professor and Chair, Mechanical Engineering, University of Kansas, I-RED, STARTUP Central

**Panelist:** Charlie Irvin, Professor, Medicine, University of Vermont, ITrep, NIGMS

This session will explore strategies to inspire and support biomedical entrepreneurship among students at all levels, researchers, clinicians, and academic leaders across diverse types of institutions. Panelists will highlight pathways for engaging in the innovation ecosystem, from early exposure to entrepreneurial thinking to pursuing startup ventures during or after graduate training. Discussion topics will include navigating technology transfer processes, identifying commercialization opportunities, securing funding from public and private sources, and building an institutional culture that motivates innovators from classrooms to research labs.

4:00PM – 5:00PM

Sunday, June 14

Salon A

### **Tips for Balancing Productivity and Enhancing Well-Being**

**Organizer:** Victor Huber, Professor, Biomedical and Translational Sciences, University of South Dakota, INBRE, SD INBRE

**Organizer:** Julie Benson, Associate Director, Alaska INBRE, University of Alaska Fairbanks, INBRE, Alaska INBRE

Bring your friends and colleagues for this important session on balancing productivity and enhancing personal well-being. This session explores practical strategies for maintaining high levels of productivity while fostering a healthy work-life balance. During the session, attendees will learn how to set boundaries, manage time effectively, and cultivate habits that support both professional success and personal resilience.

5:00PM – 7:00PM

Sunday, June 14

Terrace

### Welcome Reception

All attendees are invited to attend the NISBRE2026 Welcome Reception. Visit with NIH Program Officers and meet other faculty, staff, and students throughout the IDeA network. Light appetizers will be provided, and a cash bar will be available.

## MONDAY, JUNE 15, 2026

8:00AM – 9:00AM

Monday, June 15

Grand Ballroom

### Continental Breakfast with Table Topic Discussions

We encourage you to network with colleagues during breakfast. Tables will be held for breakout discussions focused on various topics of interest. No reservations are required.

9:00AM – 10:00AM

Monday, June 15

Grand Ballroom

### Conference Welcome and Keynote

**Moderator:** Mercedes Rubio, Director, DRCB, NIGMS, NIH Staff, DRCB

**Speaker:** Erica Brown, Acting Director, National Institute of General Medical Sciences, National Institutes of Health

**Speaker:** Alan Tackett, Distinguished Professor, Biochemistry and Molecular Biology, University of Arkansas for Medical Sciences, COBRE, Center for Translational Pediatric Research

Join us for welcoming remarks from Dr. Erica Brown, Acting Director of the National Institute of General Medical Sciences. Dr. Brown will share important updates on NIGMS and future goals for the IDeA Program. Additional remarks will be given by Dr. Alan Tackett, the president of the National Association of IDeA Principal Investigators (NAIPI).

10:30AM – 11:45AM

Monday, June 15

Forest Glen

### Biomedical Research Experiences: Opportunities for Student Education and Training

**Moderator:** Nathan Reyna, Professor, Biology Department, Ouachita Baptist University, INBRE, Arkansas INBRE

**Panelist:** Jose R Rodriguez Medina, Professor and Chair, Biochemistry, School of Medicine/University of Puerto Rico Medical Sciences Campus, INBRE, Advancing Competitive Biomedical Research in Puerto Rico

**Panelist:** Kenneth Gibbs, Director, Division of Training and Workforce Development, National Institute of General Medical Sciences, NIH Staff, NIGMS

**Panelist:** Nancy Johnston, Professor, Student Program Director, Chemistry, Lewis-Clark State College, INBRE, Idaho INBRE

Learn more about opportunities for students to engage in biomedical research at various levels of education and training. Hear from established faculty mentors on strategies to get seen and hired. Hear from instructors on ways to incorporate research experiences into course curriculum and class projects. Hear from NIH about training opportunities available for students and training grant opportunities.

10:30AM – 11:45AM

Monday, June 15

Strathmore

### **Fiscal Management of IDeA Programs**

**Organizer:** Christy Leake, Supervisory Grants Management Specialist, Grants Administration Branch, NIGMS, NIH Staff, NIGMS RCB GAB

This session will highlight common questions for fiscal management of COBRE, INBRE, and CTR awards. Learn about what is required for annual reporting, carryover needs, and no-cost extension requests. Ask your questions and get clarification on fiscal policies directly from NIGMS IDeA Program during this informative session!

10:30AM – 11:45AM

Monday, June 15

Brookside AB

### **Expanding Research Experiences, Mentoring, and Resources at Primarily Undergraduate Institutions (PUIs) to Enhance Career Pathways and Workforce Development**

**Moderator:** Annie Bergman, Director, Student Research Programs, Wyoming INBRE, University of Wyoming, INBRE, Wyoming INBRE

**Panelist:** Andrea Tilden, Dean of Student STEM Programming, Director of Linde Packman Lab for Biosciences Innovation, Biology, Colby College and MDI Biological Laboratory, INBRE, Maine INBRE Student Research Program

**Panelist:** Josh Baker, Associate Vice President for Research, Research and Innovation, University of Nevada, Reno, INBRE, NV INBRE

**Panelist:** Dustin Updike, Associate Professor, Davis Center for Regenerative Biology & Aging, The MDI Bio Lab, INBRE, Maine INBRE, PC/DRPP Director

**Panelist:** Christa Merzdorf, Associate Professor, Microbiology and Cell Biology, Montana State University, INBRE, Montana INBRE

Learn about strategies to create meaningful research experiences and improve mentoring opportunities at Primarily Undergraduate Institutions (PUIs). Learn creative ideas for extending research resources and tools to transform your research and enhance career pathways and workforce development for students. We invite you to attend this session to hear what investigators are doing to extend research opportunities at PUIs and meet colleagues who are conducting cutting-edge biomedical research in primarily undergraduate settings.

10:30AM – 11:45AM

Monday, June 15

Brookside C

### **Compliance and Reporting in Human Subjects Research and the Human Subjects System (HSS) Troubleshooting**

**Organizer:** Dawn Corbett, NIH Inclusion Officer, Office of Extramural Research, Office of Policy for Extramural Research Administration, NIH - Bethesda, MD, NIH Staff

**Organizer:** Lynda Lahl, Human Subjects Officer, OPERA/DHSR, NIH/OD/OER, NIH Staff, NIH

This session will provide a comprehensive overview of key compliance and reporting obligations in Human Subjects Research, including relevant NIH policies on human subjects research, Institutional Review Board (IRB) protocols, informed consent documentation, continuing review processes, and adverse event reporting. Special attention will be given to navigating the Human Subjects System (HSS), with practical guidance and tips for troubleshooting common errors. Bring your questions and join in this important conversation!

10:30AM – 11:45AM

Monday, June 15

White Oak A

### Science Presentations: Cancer I

**Co-Chair:** Danny N. Dhanasekaran, Professor, Senior Director, Stephenson Cancer Center, University of Oklahoma Health Sciences Campus, COBRE, Mentoring Translational Cancer Research in Oklahoma

**Co-Chair:** Peter Hoffmann, Professor, Cell and Molecular Biology, University of Hawaii at Manoa, INBRE, HI-INBRE

**Co-Chair:** Lucio Miele, Director, Cancer Center, LSU LCMC Health Cancer Center, COBRE, LSU LCMC Health Cancer Center

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Saeede Soleimanian, University of Oklahoma Health Sciences Center. **Radiation-Induced Immune Suppression Depends on HPV Status in Head and Neck Cancer.** INBRE. Short Research Presentation.

Sakuntha Devaka Gunarathna, University of North Dakota. **Open Chromatin Guided cfDNA Profiling Enables Interpretable Cancer Classification.** COBRE. Short Research Presentation.

Christine Gunn, Geisel School of Medicine at Dartmouth College. **Employing Co-Design to Enhance Clinical Trial Relevance and Engagement Among Multiple Stakeholders.** COBRE. Flash Talk.

Srinath Pashikanti, Idaho State University. **Chiral Pool Applications in Developing Anticancer Sphingolipid Natural Product Mimics and Ion-Channel Potentiators.** INBRE. Flash Talk.

Dicle Yalcin, LSU Health Sciences Center. **Validation of 40-plex Immunofluorescence to Delineate the Immune and Stromal Landscape of Kaposi Sarcoma at Single-Cell Resolution.** COBRE, Other. Flash Talk.

Mohit Verma, Marshall University. **Elucidating the Mechanisms of SA-4-1BBL-Mediated Cancer Immunoprevention Through Advanced Informatics Approaches.** INBRE. Flash Talk.

10:30AM – 11:45AM

Monday, June 15

White Oak B

### Science Presentations: Neuroscience and Neurological Disorders

**Co-Chair:** Melissa Harrington, Associate Vice President for Research, Academic Affairs, Delaware State University, COBRE, Delaware Center for Neuroscience Research

**Co-Chair:** Trupti Joshi, Senior Associate Dean for Informatics and Population Analytics and Professor, Biomedical Sciences, Marshall University, INBRE, WV-INBRE

**Co-Chair:** Carlos Luciano, Professor and Chair, Neurology, UPR Medical Sciences Campus, CTR, The Alliance for Clinical and Translational Research

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Ning Liu, Tulane University School of Medicine. **Itaconate Protects Against Blood-Brain Barrier Disruption Following Traumatic Brain Injury by Preserving Microvascular Bioenergetics.** COBRE. Short Research Presentation.

Maycie Schultz, University of Wyoming. **Transcriptomic Insights into Alzheimer's Disease Progression: scRNAseq and Visium HD Spatial Mapping Reveal AD-Specific Molecular Drivers in a Mouse Model.** COBRE, INBRE. Short Research Presentation.

Tritia Yamasaki, University of Kentucky. **Distinct Mitochondrial Structural and Bioenergetic Changes in Parkinson's Disease vs Multiple System Atrophy.** COBRE. Short Research Presentation.

Javier Ochoa-Repáraz, Boise State University. **MicroRNA-155 Regulates Neuroinflammation-Mediated Gut Barrier Dysregulation and Dysbiosis.** COBRE, INBRE. Flash Talk.

Ruth Fabian-Fine, Saint Michaels College, Biology Cheray 31. **Giant Spider Neurons Uncover a Myelin-Derived Waste-Internalizing Canal System that Fails in Neurodegeneration.** INBRE. Flash Talk.

Drazen Raucher, University Of Mississippi Medical Center. **Sex-Dependent Behavioral and Molecular Responses to a Novel Small-Molecule Therapeutic in a Mouse Model of Huntington's Disease.** COBRE. Flash Talk.

Moses Joseph Leavens, Weissman Hood Institute at Touro University. **Longitudinal Analysis of SOD1 Seeding Activity in Amyotrophic Lateral Sclerosis Cerebrospinal Fluid.** COBRE. Flash Talk.

Hillary Schwarb, University of Nebraska-Lincoln. **Structural Changes in the Hippocampus with the Rise and Fall of Estradiol: Evidence from Humans and Rats.** COBRE. Flash Talk.

11:45AM – 1:15PM

Monday, June 15

Grand Ballroom

### **Working Lunch with Table Topic Discussions**

We encourage you to network with colleagues during lunch. Tables will be held for breakout discussions focused on various topics of interest. No reservations are required.

1:15PM – 2:15PM

Monday, June 15

Grand Ballroom

### **Plenary Highlight: From IDeA Support to Independent Research Career**

**Moderator:** Rick Bevins, Chancellor's Professor & Associate Vice Chancellor for Research, University of Nebraska - Lincoln, COBRE, Rural Drug Addiction Research Center

Join us for this plenary session focused on training and mentoring success stories from IDeA state investigators. Hear from now-established investigators on how they got their start in research. From P20 awardees to MIRA and SuRE investigators, to independently R01-funded researchers, this panel will reshape how you think about the transition from trainee, to investigator, to mentor.... and beyond.

Alexa Craig, Associate Professor, Department of Pediatrics, MaineHealth and Tufts University School of Medicine, COBRE, MaineHealth Acute Care COBRE. **Turning Geography into Opportunity: Building an NIH-Funded Research Program in Rural New England**

Li Tao, Professor, Biology Department, University of Hawaii at Hilo, INBRE, HI-INBRE. **Anchoring Excellence: From INBRE Support to Independent NIH Funding in Hawai'i**

Toni Rudisill, Associate Professor, Epidemiology and Biostatistics, West Virginia University, CTR, West Virginia Clinical and Translational Science Institute. **The Road Always Under Construction: From IDeA Awardee to Funded Investigator**

Weishan Huang, Associate Professor, Department of Pathobiological Sciences, Louisiana State University, COBRE, Center for Pre-Clinical Cancer Research, Center for Lung Biology and Disease. **T Cell Receptor Signaling in Immune Modulation against Infection and Cancer**

2:45PM – 4:00PM

Monday, June 15

Forest Glen

### **An Overview of Research Training Award Opportunities for Students and Trainees Fs (F30, F31, F32), Mentored Ks, and Loan Repayment Program**

**Organizer:** Behrous Davani, Chief, Cross-Disciplinary Pathway Programs Branch, NIGMS, NIH Staff

**Organizer:** Kenneth Gibbs, Director, Division of Training and Workforce Development, National Institute of General Medical Sciences, NIH Staff, NIGMS

This session is dedicated to all things research training. Hear experts talk about the types of training grants and opportunities. Learn important tips about the review process and advice about what are often overlooked sections of a NIH-training application. Learn about finding relevant programs and gain insight into the grant review and resubmission processes for trainee-led applications. All undergraduate students, graduate students, clinical trainees, and postdoctoral research associates are encouraged to attend!

2:45PM – 4:00PM

Monday, June 15

Strathmore

### **Ensuring MyNCBI Publication Compliance and Transitioning to the Science Experts Network Curriculum Vitae (SciENcv)**

**Moderator:** Nicole Falk-Smith, Statewide Evaluation Coordinator and Program Administrator, Research & Innovation, University of Nevada, Reno, INBRE, Nevada INBRE

**Panelist:** Andrew Gilbert, Program Coordinator, Admin / MaineHealth Institute for Research, MaineHealth, COBRE, Acute Care Research & Rural Health

**Panelist:** Barbara Duncan, Associate Director, Proposal Development Office, University of Kentucky, Research Development

**Panelist:** Diane Smith, Senior Assessment and Evaluation Coordinator, IDeA Programs Office, Boise State University, COBRE, COBRE in Matrix Biology, Convergent Engineering and Biomolecular Science (CEBS) COBRE, and Healthy Idaho CTR-D

Join this session to learn more about MyNCBI publication compliance and the upcoming Science Experts Network Curriculum Vitae (SciENcv) Biosketch transition. Hear from experts on common issues they face in entering and verifying publications in MyNCBI. See the process for moving Investigator's NIH biosketches to the new Common Forms format in SciENcv. Share your publication experiences and ask biosketch questions during this important session!

2:45PM – 4:00PM

Monday, June 15

Brookside C

### **Impacts of the IDeA Program in Healthcare**

**Moderator:** Peter Hoffmann, Professor, Cell and Molecular Biology, University of Hawaii at Manoa, INBRE, HI-INBRE

**Panelist:** Sally Hodder, Professor, Medicine, West Virginia University, CTR, West Virginia Clinical and Translational Science Institute (WVCTSI)

**Panelist:** Augusto Ochoa, Professor and Chair, Interdisciplinary Oncology, LSU Health - New Orleans, COBRE, Center for Translational Viral Oncology (CTVO)

Learn about the novel ways research in IDeA states is positively impacting health trajectories for individuals. Learn about how IDeA funding is contributing to the body of health knowledge across the biomedical spectrum. Hear from researchers in basic, applied, and translational science and share impactful health research topics from your state during the Q&A/discussion portion of this session.

2:45PM – 4:00PM

Monday, June 15

Brookside AB

## **Leveraging Collaborations across the IDeA Network to Improve Engagement and Success**

**Moderator:** Shelley Lusetti, PI/PD NM-INBRE Program, Professor, and Chair, Chemistry and Biochemistry, New Mexico State University, INBRE, New Mexico INBRE

**Panelist:** Alexandra Adams, Director and Professor, Sociology and Anthropology, Montana State University, COBRE, Center for American Indian and Rural Health Excellence

**Panelist:** Cheryl Jorcyk, Professor, Director CTR, Biological Sciences, Boise State University, CTR, Healthy Idaho CTR-D Program

**Panelist:** Ojasvi Dutta, Program Manager/Assistant Director, Pathobiological Sciences/Division of Biotechnology and Molecular Medicine, School of Veterinary Medicine/Louisiana State University, INBRE, Louisiana Biomedical Research Network

Hear from individuals working across IDeA programs and IDeA states on how they built collaborations, identified new partners, and leveraged each other's strengths to improve engagement opportunities and investigator/student success at their institutions. Bring your examples of collaboration and any questions to join in this exciting session!

2:45PM – 4:00PM

Monday, June 15

White Oak A

## **Science Presentations: Structural and Cell Biology**

**Co-Chair:** Jiantao Guo, Professor, Director, Chemistry, University of Nebraska-Lincoln, COBRE, Nebraska, Center for Integrated Biomolecular Communication

**Co-Chair:** Sharon Rounds, Professor, Medicine, Brown University, CTR, Advance RI-CTR

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Julie Van De Weghe, University of Oklahoma Health Sciences Center. **Cross-Genetic Ciliary Proteomics in Joubert Syndrome Reveals a Pathogenic Convergence on Dysregulated Wnt and Hedgehog Signaling.** INBRE. Short Research Presentation.

David Punihaole, University of Vermont. **Towards Interrogating Amyloid Fibril Structures Directly in Brain Tissue with Vibrational Chemical Imaging Techniques.** COBRE. Short Research Presentation.

Alicia K. Byrd, University of Arkansas for Medical Sciences. **Functional Cooperativity of DNA Helicase B in DNA Unwinding and Protein Displacement.** COBRE. Short Research Presentation.

Gabriella Maletta, University of Delaware. **Identification and Localization of Septins in Human Erythroblasts.** INBRE. Flash Talk.

Michael Gruenstaedl, Fort Hays State University. **A Snapshot of the Quality and Reproducibility of GenBank-Archived Organellar Genomes in 2026.** INBRE. Flash Talk.

Anna Goropashnaya, University of Alaska Fairbanks. **Transcriptional and Translational Changes in Muscles of Arctic Ground Squirrels During Hibernation.** INBRE. Flash Talk.

Hayley Burnett, University of Oklahoma. **Structural Characterization of *Desulfovibrio vulgaris* Adhesins, BfsA and BfsF: Understanding Biofilm Formation in Sulfate-Reducing Bacteria.** COBRE. Flash Talk.

2:45PM – 4:00PM

Monday, June 15

White Oak B

## **Science Presentations: Neurodevelopment, Behavioral Health, Mental Health, and Related Comorbidities (Tobacco, Alcohol, Drug Misuse)**

**Co-Chair:** John Stanford, Professor, Cell Biology and Physiology, University of Kansas Medical Center, INBRE, Kansas INBRE

**Co-Chair:** David Warren, Associate Professor, Neurological Sciences, University of Nebraska Medical Center, COBRE, Cognitive Neuroscience of Development and Aging Center

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Urmi Halder, University of South Carolina School of Medicine, Columbia. **Spatial Transcriptome Mapping to Decode Cannabinoid-Mediated Neuroprotection in HIV-1 gp120-Induced Degenerating Mouse Brain.** COBRE. Short Research Presentation.

Shannon Medlock, Southcentral Foundation. **Partnering for Prevention: Community-Guided Firearm Safety Intervention in an Alaska Tribal Health System.** INBRE. Short Research Presentation.

Ariel Cox, MS, Department of Psychiatry, Division of Neurobiology and Human Behavior, University of Mississippi Medical Center. **Dorsal Hippocampal Kcnt1 Promotes Cocaine Seeking in Females, but Not Males, During Early Extinction.** COBRE. Short Research Presentation.

Sara Vargas, Brown University Health. **How Sexual and Reproductive Health Histories Are Collected in Practice: Findings from Intake Forms and Provider Interviews.** COBRE. Flash Talk.

Lisa A. Mistler, Geisel School of Medicine at Dartmouth. **Who Initiates Discussing the Mental Health of Care Partners of Persons with Dementia During Routine Office Visits?** COBRE. Flash Talk.

4:15PM – 5:15PM

Monday, June 15

Brookside AB

## **Compliance and Reporting Considerations in Conducting Vertebrate Animal Research**

**Moderator:** Steven Fiering, Professor, Microbiology and Immunology, Dartmouth Geisel School of Medicine, INBRE, New Hampshire INBRE

**Panelist:** Rhett Stout, Director & Professor, Division of Laboratory Animal Medicine/ Dept of Pathobiological Sciences, Louisiana State University, INBRE, Louisiana INBRE-(Louisiana Biomedical Research Network (LBRN))

**Panelist:** Robert "Scott" Seville, Emeritus Professor, Zoology and Physiology, University of Wyoming, INBRE, Wyoming INBRE

**Panelist:** Jerry Ware, Professor, Department of Physiology & Biophysics, University of Arkansas for Medical Sciences, INBRE, Arkansas INBRE

This session will provide insights on completing the vertebrate animal section of NIH grant applications. Hear from experts on ways to minimize the numbers of animals used while ensuring statistical significance and addressing sex as a biological variable. Discuss new guidance from NIH on the use of animals in research. This session will also include tips for submitting post-award IDeA pilot projects that involve vertebrate animals.

4:15PM – 5:15PM

Monday, June 15

Brookside C

### **COBRE Directors: Closed Meeting**

**Moderator:** Lucy Liaw, Director and Faculty Scientist, Research Training and Education, MaineHealth Institute for Research, COBRE, COBRE in Metabolic Networks

**Moderator:** Alan Tackett, Distinguished Professor, Biochemistry and Molecular Biology, University of Arkansas for Medical Sciences, COBRE, Center for Translational Pediatric Research

**Participant:** Federico Bernal, Chief, Research Advancement Programs Branch, National Institute of General Medical Sciences, NIH Staff, COBRE

Meet with NIGMS Leadership and network with other COBRE Principal Investigators during this NISBRE2026 session. Learn about COBREs across the country, meet COBRE PIs in similar thematic areas, and share resources for COBRE administration. This is a closed meeting for COBRE PIs.

4:15PM – 5:15PM

Monday, June 15

Glen Echo

### **CTR Directors: Closed Meeting**

**Moderator:** Sharon Rounds, Professor, Medicine, Brown University, CTR, Advance RI-CTR

**Participant:** Greg Bissonette, Branch Chief, DRCB, NIGMS, NIH Staff, IDeA CTR-D/CTR-N programs

Meet with NIGMS Leadership and connect with CTR Principal Investigators during this NISBRE2026 session. Spend time connecting with CTR PIs and share resources for CTR administration. This is a closed meeting for CTR PIs.

4:15PM – 6:00PM

Monday, June 15

Salon ABC

### **Scientific and Core Poster Session I**

Join us in the Salon ABC for this exciting session! Check the NISBRE at Glance Pamphlet (available in print, on the NISBRE app, and on the conference website) for a list of this year's poster presentations. Posters are listed by assigned poster number and organized by theme. Please remember to vote for your favorite poster(s) in the NISBRE People's Choice Poster Awards by using the QR code located at each poster presentation. Numerous award categories are available, and winners will be announced during the awards ceremony.

## **TUESDAY, JUNE 16, 2026**

8:00AM – 9:00AM

Tuesday, June 16

Grand Ballroom

### **Continental Breakfast with Table Topic Discussions**

We encourage you to network with colleagues during breakfast. Tables will be held for breakout discussions focused on various topics of interest. No reservations are required.

9:00AM – 10:00AM

Tuesday, June 16

Grand Ballroom

### **Keynote**

**Moderator:** Lucy Liaw, Director and Faculty Scientist, Research Training and Education, MaineHealth Institute for Research, COBRE, COBRE in Metabolic Networks

**Speaker:** Henry Higgs, Professor, Department of Biochemistry and Cell Biology, Dartmouth College, COBRE, BioMT.

Join us for this exciting keynote talk featuring Dr. Henry Higgs. Dr. Higgs is a Professor of Biochemistry and Cell Biology at Dartmouth College. He is also part of the Institute for Biomolecular Targeting (bioMT) COBRE at Dartmouth. Dr. Higgs' keynote address will focus on new insights into

quantifying actinomes of specific human cells, made possible through new technologies and support from the IDeA program.

10:30AM – 11:45AM

Tuesday, June 16

Forest Glen

### **Pursuing Research and Health Professions Careers**

**Moderator:** Meghan Reeves, Director, ISCORE-RC, West Virginia University, ISCORE-RC, I-CRRC

**Panelist:** Olga Kovbasnjuk, Program Director, NIGMS/DRCB, NIH, COBRE, NIH

**Panelist:** Valerie Wojna, Professor, Neurology Division, University of Puerto Rico, Medical Sciences Campus, CTR, The Alliance for Clinical and Translational Research

**Panelist:** Evangelia Morou Bermudez, Professor, School of Dental Medicine, University of Puerto Rico Medical Sciences Campus, CTR, Alliance for Clinical & Translational Research

**Panelist:** Sharon Rounds, Professor, Medicine, Brown University, CTR, Advance RI-CTR

Want to learn more about research in health professions? Join this session to hear from professionals working across biomedical research and health profession careers. Panelists will share their educational and research career journeys and provide helpful insights from along the way.

10:30AM – 11:45AM

Tuesday, June 16

Strathmore

### **Sharing Your Story: Data Use to Improve Your Program and Demonstrate Success**

**Moderator:** Samuel Robison, Associate Director, Social Research and Evaluation Center, Louisiana State University, INBRE, Louisiana Biomedical Research Network

**Panelist:** Carolyn Bohach, Distinguished Professor, Animal, Veterinary, and Food Science Department, University of Idaho, INBRE, Idaho INBRE Program

**Panelist:** Laura Lessard, Director of Evaluation, Delaware INBRE, University of Delaware, INBRE, Delaware INBRE

**Panelist:** Reagan Curtis, Professor, Cancer Prevention and Control, West Virginia University, CTR, West Virginia Clinical and Translational Science Institute

**Panelist:** Jessica Faupel-Badger, Chief, Networks and Development Programs Branch, Division for Research Capacity Building, NIGMS/NIH, NIH Staff, INBRE

Join this interactive session to discuss considerations and approaches for IDeA program evaluation and metric tracking for annual reporting, renewal applications, advocacy, and other purposes (e.g., communicating to state-level stakeholders). This information is increasingly important for institutional, state, and federal reporting, with impacts on long-term sustainability. Learn about reporting resources and ask your questions to a panel with experience and expertise in IDeA programs and evaluation.

10:30AM – 11:45AM

Tuesday, June 16

Brookside C

### **Ethical Considerations in Using Artificial Intelligence in Biomedical Research**

**Moderator:** Frank Chessa, Director and Assistant Professor, Clinical Ethics, MaineHealth, COBRE, COBRE in Acute Care Research and Rural Disparities

**Panelist:** Gus Kousoulas, Department Head & Professor/Director, Pathobiological Sciences/Division of Biotechnology and Molecular Medicine, School of Veterinary Medicine/Division of Biotechnology and Molecular Medicine, INBRE, Louisiana Biomedical Research Network

**Panelist:** Saeed Hassanpour, Professor, Biomedical Data Science Department, Dartmouth College, COBRE, Center for Quantitative Biology (CQB)

**Panelist:** Ram Samudrala, Professor, Biomedical Informatics, University at Buffalo, Other, LBRN, EAC member for LBRN

This session will feature experts in artificial intelligence (AI) as they discuss ethical considerations in using AI in biomedical research. Panelists will discuss topics such as transparency, bias, disclosure, and privacy. Bring your questions and join in this important session!

10:30AM – 11:45AM

Tuesday, June 16

Brookside AB

### **Building IDeA Capacity and Increasing Competitiveness for Ts and Institutional K-Awards**

**Moderator:** James Kenyon, Emeritus Professor, NV INBRE, University of Nevada, Reno, INBRE, Nevada IDeA Network of Biomedical Research Excellence

**Panelist:** Elizabeth Harrington, Professor/ Associate Dean, Medicine/ Office of Graduate Studies, Brown University, CTR, Advance CTR

**Panelist:** Behrouz Davani, Chief, Cross-Disciplinary Pathway Programs Branch, NIGMS, NIH Staff

**Panelist:** Lawrence Cornett, Professor, Physiology and Cell Biology, University of Arkansas for Medical Sciences, INBRE, Arkansas INBRE

**Panelist:** Irina Krasnova, Program Director, Division of Clinical Innovation, NCATS, NIH, NIH Staff

Join us for a discussion on building capacity and increasing competitiveness for institutional training and early career awards. Hear from NIH staff and established IDeA principal investigators as they share important considerations in strategic planning and practical implementation. Ask your questions and get advice on how to prepare competitive training proposals.

10:30AM – 11:45AM

Tuesday, June 16

White Oak A

### **Science Presentations: Microbiology and Infectious Disease**

**Co-Chair:** Juergen Richt, Professor, DMP, Kansas State University, COBRE, CEZID

**Co-Chair:** Steven Fiering, Professor, Microbiology and Immunology, Dartmouth Geisel School of Medicine, INBRE, New Hampshire INBRE

**Co-Chair:** Gailen Marshall, Professor, Medicine, University of Mississippi Medical Center, CTR, Mississippi Center for Clinical and Translational Research

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Natalie Graham, University of Hawaii at Hilo. **Integrated Molecular Biosurveillance of Vectors, Invasive Pests, and Pathogens in Hawai'i Using eDNA Metabarcoding and qPCR Diagnostics.** INBRE. Short Research Presentation.

Robin Orozco, University of Kansas. **Cell-Type Specific Regulation of Type I Interferon by Autoimmune Allelic Variant PEP-R619W Contributes to Preventing Immune Exhaustion.** COBRE, INBRE. Short Research Presentation.

Allyn Schoeffler, Loyola University New Orleans. **Determination of the Molecular Basis for Erythromycin Resistance Methyltransferase Selectivity through Bioinformatics.** INBRE. Short Research Presentation.

Diane Bimczok, Montana State University. **Vibrio Cholerae Develops Novel Inside-Out Biofilm-Like Aggregates in the Presence of a Nitric-Oxide-Rich Human Intestinal Environment.** INBRE. Flash Talk.

Mohammad Abrar Alam, Arkansas State University. **Trisubstituted Pyrazole Derivatives as Potent Antibacterial Agents to Treat Septicemia.** INBRE. Flash Talk.

Shuqi Wang, LSU Shreveport Health Center. **RIPK3 Acts as a Molecular Switch Between Neuroprotection and Neuroinflammation During Herpes Simplex Encephalitis.** COBRE. Flash Talk.

Anyuba A Nmaju, Idaho Veterans Research and Education Foundation, Idaho State University. **Characterizing a New Therapeutic Strategy for the Treatment of Necrotizing Soft Tissue Infections Caused by Group A Streptococcus.** INBRE. Flash Talk.

Devin M. Drown, University of Alaska Fairbanks. **Real-Time Nanopore Adaptive Sampling for Enhanced Metagenomic Surveillance of Foodborne Pathogens and Antimicrobial Resistance.** INBRE. Flash Talk.

10:30AM – 11:45AM

Tuesday, June 16

White Oak B

### **Science Presentations: Cardiovascular Biology, Cerebrovascular Biology, and Stroke**

**Co-Chair:** Bill Shuttleworth, Professor, Neurosciences, University of New Mexico, COBRE, UNM Center for Brain Recovery and Repair

**Co-Chair:** Edie Goldsmith, Professor, Cell Biology & Anatomy, University of South Carolina School of Medicine, INBRE, SC INBRE

**Co-Chair:** Mary Cushman, University Distinguished Professor, Medicine, University of Vermont Larner College of Medicine, COBRE, Vermont Center for Cardiovascular and Brain Health

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Gopi Kolluru, LSU Health-Shreveport. **Cystathionine Gamma-Lyase and Reactive Sulfur Species Regulation in Vascular Aging.** COBRE. Short Research Presentation.

Marcus Robbins, University of Mississippi Medical Center. **Preeclamptic Placental Macrophages Impair Endothelial Angiogenesis and Promote Oxidative Stress.** COBRE. Short Research Presentation.

Peng Zhang, Brown University & Providence VA Medical Center. **Role of Matrisome in Right Ventricular Dysfunction in Pulmonary Hypertension.** COBRE. Short Research Presentation.

Emma C Hudgins, University of Delaware. **Hyperglycemia Impairs Endothelial Kir1 Channels Through Disruption of the Glycocalyx.** COBRE. Flash Talk.

Diego Adrianzen Herrera, University of Vermont. **Cardiovascular Risk Factors Exhibit Differential Effect in Patients with Myelodysplastic Neoplasms (MDS) than Non-Cancer Controls.** COBRE. Flash Talk.

Ian Stone, Eastern Kentucky University. **Impact of Hydroxytyrosol on Platelet Granule Cargo Release.** INBRE. Flash Talk.

Darci M. Fink, South Dakota State University. **Intraflagellar Transport Proteins Control Lymphatic Vessel Permeability and Valve Formation.** COBRE. Flash Talk.

Morgan Bridi, West Virginia University. **Measuring and Manipulating Stress-Responsive Hypothalamic Nuclei to Improve Post-Stroke Outcomes.** COBRE. Flash Talk.

11:45AM – 1:15PM

Tuesday, June 16

Grand Ballroom

### **Working Lunch with Table Topic Discussions**

We encourage you to network with colleagues during lunch. Tables will be held for breakout discussions focused on various topics of interest. No reservations are required.

1:15PM – 2:15PM

Tuesday, June 16

Grand Ballroom

### **Plenary Highlight: Computational and Data Science Resources for Research**

**Moderator:** Gus Kousoulas, Department Head & Professor/Director, Pathobiological Sciences/Division of Biotechnology and Molecular Medicine, School of Veterinary Medicine/Division of Biotechnology and Molecular Medicine, INBRE, Louisiana Biomedical Research Network

This one-hour session will highlight tools and resources for data science training across a myriad of topics, including the NIH STRIDES program. Join us for this exciting discussion and hear insights from speakers working across IDeA Programs.

Jerrod Anzalone, Assistant Professor, Biostatistics, University of Nebraska Medical Center, CTR, Great Plains IDeA-CTR. **Navigating Real-World Data Resources for Clinical and Translational Researchers**

Joel Graber, Senior Staff Scientist, Comparative Genomics and Data Science Core, MDI Biological Laboratory, INBRE, Maine INBRE. **Small Core, Big Questions: Supporting Diverse Science with Modest Means**

Natasha Sefcovic, Workforce Development Contractor for STRIDES Cloud Lab, Cloud Services / Center for Information Technology (CIT), National Institutes of Health. **Lowering Barriers to Cloud-Based Research: Training and Workforce Development through the NIH STRIDES Cloud Lab**

2:45PM – 4:00PM

Tuesday, June 16

Forest Glen

### **An Overview of MIRAs, R01s, R15s, R16s, and IDeA Co-Funding**

**Moderator:** Anne Gershenson, Program Director, Division of Biophysics, Biomedical Technology and Computational Biosciences, NIGMS, NIH Staff

**Panelist:** Yang Zhou, Program Officer, NIGMS, NIH, NIH Staff, INBRE

**Panelist:** Rubin Baskir, Program Director, Division for Research Capacity Building, National Institute of General Medical Sciences, NIH Staff, SuRE, SuRE-First, COBRE

**Panelist:** Baishali Maskeri, Program Director, NIGMS, NIH, NIH Staff

**Panelist:** Michelle Bond, Program Director, NIGMS, NIH, NIH Staff

Join us for this session with NIGMS Program Officers. Learn about funding opportunities including MIRAs (R35s), R01s, R15s, R16s, and IDeA co-funding programs. Hear about often overlooked sections of an application, important considerations in the review process, and general tips for proposal success.

2:45PM – 4:00PM

Tuesday, June 16

Strathmore

### **Core Facilities: Improving Outcomes and Budgeting for Sustainability**

**Moderator:** Melinda Duncan, Associate VP for Research, Trustee's Distinguished Professor, Biological Sciences, University of Delaware, INBRE, DE-INBRE

**Panelist:** Hippokratis Kiaris, Professor, Director, Drug Discovery and Biomedical Sciences, University of South Carolina, COBRE, COBRE Center for Targeted Therapeutics

**Panelist:** Jeffrey Good, Professor, Director, Biological Sciences, University of Montana, INBRE, Montana INBRE

**Panelist:** Juli Petereit, Director, Nevada Bioinformatics Center/ Data Science Core, University of Nevada, Reno, CTR, NV INBRE

Hear about common issues in core facility management, learn ways to build efficiencies in core facility operations, and continue your planning for core sustainability. Join this discussion of core operations, client management, rate structures, compliance considerations, and how cores facilitate training of the next generation of biomedical research scientists. Bring your questions and join in on the discussion.

2:45PM – 4:00PM

Tuesday, June 16

Brookside C

### **Developing and Sustaining Health Promotion Programs**

**Moderator:** Ruben Martinez, Assistant Professor, Department of Psychiatry and Human Behavior, Brown University, CTR, Advance-RI CTR

**Panelist:** Pearl McElfish, Professor and Director of Institute for Community Health Innovation, COM, UAMS, COBRE, MaRCH COBRE

**Panelist:** Alexandra Adams, Director and Professor, Sociology and Anthropology, Montana State University, COBRE, Center for American Indian and Rural Health Excellence

**Panelist:** Augusto Ochoa, Professor and Chair, Interdisciplinary Oncology, LSU Health - New Orleans, COBRE, Center for Translational Viral Oncology (CTVO)

This session will discuss strategies to successfully implement evidence-based interventions for health promotion and disease prevention programs. Panelists will share their insights on collaboration, community engagement, policy integration, and program evaluation. Bring your questions and join in this important session!

2:45PM – 4:00PM

Tuesday, June 16

Brookside AB

### **Best Practices in IDeA Course-Based Undergraduate Research Experiences (CUREs)**

**Moderator:** Ken Cornell, Director/Professor, IDeA Programs Office, Biomolecular Research Institute/Boise State University, COBRE, COBRE Convergent Engineering & Biomolecular Sciences

**Panelist:** Sally Mollo, Associate Professor of Genomics, Molecular and Biomedical Sciences/Honors, The University of Maine, INBRE, Maine INBRE

**Panelist:** Kimberlee Mix, Associate Professor Biological Sciences, Loyola University New Orleans, INBRE, Louisiana Biomedical Research Network

**Panelist:** Thomas Huckaba, Endowed Professor, Department of Biology, Xavier University of Louisiana, INBRE, Louisiana Biomedical Research Network

Learn about best practices in course-based undergraduate research experiences (CUREs). Hear from investigators who have incorporated CUREs into their classes. Panelists will discuss novel ways to promote research during a semester-based schedule, enhance student engagement, and provide exceptional mentorship during the academic year.

2:45PM – 4:00PM

Tuesday, June 16

Glen Echo

### **Intramural Research Training Opportunities at NIH**

**Moderator:** Jackie Lavigne, Director, Office of Education, Division of Cancer Epidemiology and Genetics, NCI/NIH, NIH Staff, NIH Staff

**Panelist:** Lori Conlan, Director (Acting), OITE, NIH, NIH Staff, NIH staff

**Panelist:** Megan Sampley Bohn, Director, Office of Education, National Institute of Child Health and Human Development, NIH Staff, NIH

**Panelist:** Belen Hurle, Director, Intramural Translational Training, Division of Preclinical Innovation, National Center for Advancing Translational Sciences (NCATS), NIH Staff

Learn more about the research training opportunities within the NIH Intramural Research Program, including opportunities at all levels (undergraduate, postbaccalaureate, graduate student and postdoctoral positions), application processes, mentorship, and career development resources to support your advancement in biomedical research.

2:45PM – 4:00PM

Tuesday, June 16

White Oak A

### **Science Presentations: AI-Powered Surveillance, Data Science and Machine Learning**

**Co-Chair:** Holly Wichman, Professor, Biological Sciences, University of Idaho, COBRE, Center for Modeling Complex Interactions

**Co-Chair:** Babu Guda, Professor, Genetics, Cell Biology and Anatomy, University of Nebraska Medical Center, INBRE, Nebraska INBRE

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Zhicheng Jiao, Brown University. **An End-to-End Ecosystem for Radiology Foundation Models: Vision-Language Methods, Multi-Source Reasoning, and Deployment-Ready Evaluation.** CTR. Short Research Presentation.

Magesh Rajasekaran, Louisiana State University. **DeepDrug Synergy: Deep Learning to Uncover How Chemical Structures Drive Drug Synergy.** INBRE. Short Research Presentation.

Yixiang Deng, University of Delaware. **Physiology-Constrained Uncertainty Quantification for Glucose Dynamics in Type 1 Diabetes.** INBRE. Short Research Presentation.

Samuel Gonzalez Garcia, University of Wyoming. **Building the Stressed Mind: Modeling the Effects of Stress in a PFC Model.** INBRE, COBRE. Flash Talk.

Whitney Mitchell, Lyon College. **Insight into the Mechanism of Action of Novel Naphthoquinone Derivatives using Data Independent Acquisition Proteomics.** INBRE. Flash Talk.

Zhaoxu Meng, Clemson University. **Machine Learning-Enabled Multiscale Mechanics of Soft Tissue-Bone Interfaces: Implications for Degeneration, Injury, and Regenerative Scaffold Design.** COBRE. Flash Talk.

Jian Wang, LSUHSC-Shreveport. **DeathScope: A High-Throughput YOLO-Powered Cell Death Detection in Incucyte Phase-Contrast Imaging.** COBRE. Flash Talk.

Shuchun Sun, Clemson University. **Integrating Multimodal Data Collection, Digital Twins, and AI to Implement Biopsychosocial Management for Temporomandibular Disorders.** COBRE. Flash Talk.

2:45PM – 4:00PM

Tuesday, June 16

White Oak B

### **Science Presentations: Health Across the Lifespan and Lifestyle Interventions for Disease Prevention (Children's Health, Nutrition, Obesity, & Aging)**

**Co-Chair:** Janos Zemleni, Professor and Director, Nutrition and Health Sciences, University of Nebraska-Lincoln, COBRE, Nebraska Center for the Prevention of Obesity Diseases Through Dietary Molecules

**Co-Chair:** Lawrence Cornett, Professor, Physiology and Cell Biology, University of Arkansas for Medical Sciences, INBRE, Arkansas INBRE

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Douglas McLaurin, University of Mississippi Medical Center. **Project Baby Magnolia: A Genomic Medicine Program for the Neonatal Intensive Care Unit at the University of Mississippi Medical Center.** COBRE. Short Research Presentation.

Abi Heller-Wight, University of Nebraska Medical Center. **Measuring the Influence of Physical Activity and Fitness on Development of Cognition, Brain Structure, and Brain Function in Periadolescent Children.** CTR. Short Research Presentation.

Yoriko Heianza, Tulane University School of Public Health and Tropical Medicine. **Effects of Dietary Carbohydrate Amount and Glycemic Index on Serum Proteomic Signatures and Diurnal Postprandial Glucose Responses: The OmniCarb Trial.** COBRE. Short Research Presentation.

Zugui Zhang, Christiana Care Health System. **Neighborhood Environmental Burden and Socioeconomic Disadvantage Are Linked to Elevated Blood Pressure in U.S. Youth.** COBRE, INBRE, CTR. Flash Talk.

Laura Williamson, University of Montana. **Immunization Information System (IIS) Measures of Childhood Vaccination Coverage: The Role of Standardization.** COBRE. Flash Talk.

Md Jobayer Hossain, Nemours Children's Health. **Developmental Pathways of Early Childhood Obesity and Associated Comorbidities and Correlates.** CTR. Flash Talk.

Simon Chung, University of Arkansas for Medical Sciences. **Modeling Continuous 24-Hour Ambulatory Blood Pressure Trajectories Using Penalized Spline Mixed-Effects Regression.** COBRE. Flash Talk.

4:15PM – 5:15PM

Tuesday, June 16

Strathmore

### **Communication and Social Media Best-Practices**

**Moderator:** Cyndy Buckhaults, Communications Manager, University of South Carolina School of Medicine, INBRE, South Carolina IDeA Networks of Biomedical Research Excellence (SC INBRE)

**Panelist:** Danny Holland, Events and Public Relations Coordinator, Office of the Vice President for Research, The University of Southern Mississippi, INBRE, Mississippi INBRE

**Panelist:** Stephanie Ballard Conrad, Chief of Staff, Clinical & Translational Science, West Virginia University, CTR, West Virginia Clinical & Translational Science Institute (WVCTSI)

**Panelist:** Jane Onoye, Professor, Psychiatry, University of Hawaii, INBRE, Hawaii INBRE

Hear from experts in communication and social media as we discuss best practices for IDeA programs and projects. Panelists will discuss approaches to tailor content for numerous audiences, maintain professionalism and program credibility online, navigate emerging online platforms and software(s), and measure the impact of your messaging on scientific and program outcomes.

4:15PM – 5:15PM

Tuesday, June 16

Brookside AB

### **Compliance and Reporting Considerations in Conducting Clinical Trials Research**

**Moderator:** Clifford Rosen, MD, MHIR, MaineHealth, CTR, Northern New England CTR

**Panelist:** David Warren, Associate Professor, Neurological Sciences, University of Nebraska Medical Center, COBRE, Cognitive Neuroscience of Development and Aging Center

**Panelist:** Shelley Welch, Senior Director of Research, Clinical Research Center of Excellence, West Virginia Clinical & Translational Science Institute, CTR, West Virginia Clinical & Translational Science Institute

**Panelist:** Dawn Corbett, NIH Inclusion Officer, Office of Extramural Research, Office of Policy for Extramural Research Administration, NIH - Bethesda, MD, NIH Staff

Learn about important considerations when conducting clinical trials and discuss specific clinical trials requirements and regulations. Hear from panelists who oversee clinical trial operations and gain insight into strategies to enhance accountability and compliance. Bring your questions and experiences to share and discuss with the group!

4:15PM – 5:15PM

Tuesday, June 16

Forest Glen

### **INBRE Directors: Closed Meeting**

**Moderator:** Robert "Scott" Seville, Emeritus Professor, Zoology and Physiology, University of Wyoming, INBRE, Wyoming INBRE

**Moderator:** Gus Kousoulas, Department Head & Professor/Director, Pathobiological Sciences/Division of Biotechnology and Molecular Medicine, School of Veterinary Medicine/Division of Biotechnology and Molecular Medicine, INBRE, Louisiana Biomedical Research Network

**Participant:** Jessica Faupel-Badger, Chief, Networks and Development Programs Branch, Division for Research Capacity Building, NIGMS/NIH, NIH Staff, INBRE

Meet with NIGMS Leadership and connect with INBRE Principal Investigators during this NISBRE2026 session. Spend time connecting with INBRE PIs and share resources for INBRE administration. This is a closed meeting for INBRE PIs and Program Directors.

4:15PM – 6:00PM

Tuesday, June 16

Salon ABC

### **Scientific and Core Poster Session II**

Join us in the Salon ABC for this exciting session! Check the NISBRE at Glance Pamphlet (available in print, on the NISBRE app, and on the conference website) for a list of this year's poster presentations. Posters are listed by assigned poster number and organized by theme. Please remember to vote for your favorite poster(s) in the NISBRE People's Choice Poster Awards by using the QR code located at each poster presentation. Numerous award categories are available, and winners will be announced during the awards ceremony.

## **WEDNESDAY, JUNE 17, 2026**

8:00AM - 9:00AM

Wednesday, June 17

Grand Ballroom

### **Continental Breakfast with Table Topic Discussions**

We encourage you to network with colleagues during breakfast. Tables will be held for breakout discussions focused on various topics of interest. No reservations are required.

9:00AM – 10:15AM

Wednesday, June 17

Brookside & Brookside Foyer

### **Meet the Funders: One-on-One Time with Staff from Federal Agencies**

Do you have a question for your program officer? Want some advice about the direction of research funding? Does your institution need an expensive instrument, and you want to know if NIH or other federal agencies could support it? Want to know more about how to interpret your proposal reviews? Are you interested in obtaining funding from the NIH or other federal agencies but don't know how to proceed? Make time to attend this session where you will be able to ask the questions you've always wanted to ask and find out about receiving NIH or other federal agency support in small roundtable settings that give you one-on-one access to NIH staff from many different Institutes and Centers and staff from other federal agencies. *To participate in this session, attendees will be REQUIRED to schedule an appointment through the NISBRE app. All appointments will be conducted in a 1:1 meeting format due to limited table space at the conference venue.*

9:00AM – 10:15AM

Wednesday, June 17

Glen Echo

## **Structural Biology and Bioinformatics as Tools in Biomedical Research**

**Moderator:** Seetharama Jois, Professor of Cancer Immunology & Computational and Structural Biology, Department of Pathobiological Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, INBRE, Louisiana Biomedical Research Network

**Panelist:** Eric Enemark, Associate Professor, Biochemistry and Molecular Biology, University of Arkansas for Medical Sciences, COBRE, Center for Molecular Interactions in Cancer

**Panelist:** Anirban Banerjee, Senior Investigator, NICHD, National Institutes of Health, NIH Staff, NIGMS

**Panelist:** Lakshmi Matukumalli, Program Director, NIGMS, NIH, NIH Staff, DRCB

**Panelist:** Claudia Lopez, Associate Professor/Director, Pacific Northwest Center for cryoEM, Oregon Health & Science University, Other, NIH cryoEM Center, NIH cryoEM Center NIGMS

**Panelist:** Sridhar Hannenhalli, Senior Investigator, Cancer Data Science Lab, National Cancer Institute, NIH Staff

Learn more about NIGMS-supported resource centers for research in structural biology. Hear from NIGMS staff and resource center experts from CryoEM, CryoET, NMR Facilities, and -omics studies. We invite you to attend this session to learn how resource centers can be a tool to transform your research and enhance your team's scientific capabilities.

9:00AM – 10:15AM

Wednesday, June 17

Forest Glen

## **Communicating Science to the Public and Your Community**

**Moderator:** Elizabeth Walsh, Open Science Fellow, Presidents Office, Howard Hughes Medical Institute, INBRE

**Panelist:** Allison Coffin, Associate Professor, Biomedical Sciences, Creighton University, COBRE, Translational Hearing Center- Nebraska

**Panelist:** Kennen Hutchison, Executive Director, Executive, Association of Science Communicators, Association of Science Communicators

This session will provide pointers for explaining your research and science to non-specialists. The panel will discuss the importance of science communication and will explore best practices for designing and delivering impactful presentations to effectively convey biomedical research findings.

9:00AM – 10:15AM

Wednesday, June 17

White Oak A

## **Science Presentations: Cancer II**

**Co-Chair:** Danny N. Dhanasekaran, Professor, Senior Director, Stephenson Cancer Center, University of Oklahoma Health Sciences Campus, COBRE, Mentoring Translational Cancer Research in Oklahoma

**Co-Chair:** Peter Hoffmann, Professor, Cell and Molecular Biology, University of Hawaii at Manoa, INBRE, HI-INBRE

**Co-Chair:** Lucio Miele, Director, Cancer Center, LSU LCMC Health Cancer Center, COBRE, LSU LCMC Health Cancer Center

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Kalyani Dhusia, University of Arkansas Medical Sciences. **A Nextflow Pipeline for Proteogenomic Integration in Cancer.** INBRE. Short Research Presentation.

Biplov Sapkota, Department of Comparative Biomedical Sciences, Louisiana State University.

**Oncolytic HSV-1 Synergizes with Chemotherapy to Suppress Metastatic Pancreatic Cancer.** COBRE. Short Research Presentation.

Naveen Chintala Ramulu, Louisiana State University. **Transmissible ER Stress Reprograms Macrophages in Pancreatic Cancer.** COBRE. Short Research Presentation.

Hari K K Koul, LSU-LCMC Cancer Center, LSUHSC-New Orleans. **The Association Between Obesity, Diabetes and Prostate Cancer Aggressiveness in Louisiana.** COBRE. Flash Talk.

Pramod Bahadur K C, LSUHSC. **Repurposing Ganciclovir as a Multifunctional Adenosine A2A Receptor Antagonist that Stimulates Antitumor and Antiviral Immune Responses Against Epstein Barr Virus-Driven Cancers.** COBRE. Flash Talk.

Giulia Monticone, Department of Genetics, School of Medicine, Louisiana State University Health Sciences Center. **Reprogramming Antivirals for Immuno-Oncology: AI-assisted Design of Multifunctional Therapeutics for Viral-Driven Cancers.** COBRE. Flash Talk.

Jean Christopher Chamcheu, SUBR. **Pharmacologic Rewiring of BRAF-Driven Melanoma: The Fisetin Analogue F20 Overcomes Targeted Therapy Resistance and Achieves Near-Complete Tumor Suppression In Vivo.** COBRE. Flash Talk.

Monika Rak, Department of Interdisciplinary Oncology, School of Medicine, Louisiana State University Health Sciences Center. **Human Endogenous Retroviruses (HERVs) Associated with Glioblastoma Prognosis.** COBRE. Flash Talk.

9:00AM – 10:15AM

Wednesday, June 17

White Oak B

### **Science Presentations: Chronic Disease Mechanisms, Risk, and Prevention**

**Co-Chair:** Curtis Noonan, Director, School of Public and Community Health Sciences, University of Montana, COBRE, Center for Population Health Research

**Co-Chair:** Jason Burkhead, Professor and AK INBRE Director, Institute of Arctic Biology, University of Alaska Fairbanks, INBRE, Alaska INBRE

**Co-Chair:** Bethany Gibbs, Professor and Chair, Epidemiology & Biostatistics, West Virginia University, CTR, West Virginia Clinical and Translational Sciences Institute

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Manisha Thakur, Southern University and A&M College. **STAT3-Driven Polycomb Dysregulation Underlies PFOA-Induced Inflammatory Reprogramming in Lung Epithelium.** COBRE, INBRE. Short Research Presentation.

Cammi Valdez, Northeastern State University. **Developing a Diet-Induced Longitudinal Mouse Model of Diabetic Retinopathy.** INBRE. Short Research Presentation.

Yoriko Heianza, Tulane University School of Public Health and Tropical Medicine. **Fasting Blood Proteomic BMI Signature Predicts Half-Day Postprandial Glycemic Responses to Diets Varying in Carbohydrate Content and Glycemic Index: The OmniCarb Trial.** COBRE. Short Research Presentation.

Manikandan Palrasu, Department of Pathology, Microbiology and Immunology, University of South Carolina School of Medicine. **AhR-MMP-NK Cell Crosstalk Regulates Colonic Inflammation and Colitis-Associated Colorectal Cancer Progression.** COBRE. Flash Talk.

Amy Yoshiko Sato, Center for Musculoskeletal Disease Research, Department of Physiology and Cell Biology, University of Arkansas for Medical Sciences. **Investigating the Glucocorticoid Contribution to Muscle and Bone Disease in Duchenne Muscular Dystrophy.** COBRE. Flash Talk.

Laura Paulin, Dartmouth Health. **Perspectives on Rural Environmental Exposures Among Individuals with COPD: A Qualitative Study.** COBRE. Flash Talk.

Peng Chen, Clemson University. **Integrative 3D Whole Joint Mapping and Multiscale Computational Modeling Bridge Joint Structure, Function, and Pain.** COBRE. Flash Talk.

Nancy Johnston, Lewis-Clark State College. **Characterization of Volatile Organic Compounds in Western US Wildfire Smoke and Impacts on Health.** INBRE. Flash Talk.

9:00AM – 10:15AM

Wednesday, June 17

Strathmore

## **Administrative and Core Presentations: Workforce Development, Training, Mentoring, Community Engagement, and Implementation Science**

**Co-Chair:** Joseph Francis, Professor and Director Center for Comparative Oncology, Comparative Biomedical Sciences, Louisiana State University, COBRE, LBRN

**Co-Chair:** Bongsup Cho, Director, Professor, Biomedical and Pharmaceutical Sciences, University of Rhode Island College of Pharmacy BPS, INBRE, RI-INBRE

**Co-Chair:** Sally Hodder, Professor, Medicine, West Virginia University, CTR, West Virginia Clinical and Translational Science Institute (WVCTSI)

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Nathan S. Reyna, Ouachita Baptist University. **Building Data Science Capacity through Authentic Undergraduate Research Experiences.** INBRE. Short Research Presentation.

Sue Giancola, University of Delaware. **Unpacking ROI: Oversimplifying Complexity.** CTR. Short Research Presentation.

Stephen Kogut, Advance RI-CTR, Brown University. **From Pilot Funding to Publication and Grants: Evaluating Predictors of Success.** CTR. Short Research Presentation.

Benjamin Bear, Center for Healthcare Delivery Science, Nemours Children's Health. **Qualitative IMPACT: Mentoring Healthcare Researchers in Qualitative Methods.** COBRE. Flash Talk.

Jon-Paul Bingham, Department of Molecular Biosciences and Bioengineering, College of Tropical Agriculture and Human Resilience, University of Hawai'i at Mānoa. **A Decade of Building Biomedical PATHways in Hawai'i: Outcomes and Lessons from the HI INBRE Integrated Training Model.** INBRE. Flash Talk.

Susan D. Smith, Christiana Care Health System. **Expanding Traditional Mentoring Through a Dual Mentor Model.** INBRE. Flash Talk.

Sophia Newcomer, University of Montana Center for Population Health Research. **Writing for Success: The Proposal Development Program at the University of Montana's Center for Population Health Research.** COBRE. Flash Talk.

Jessica Thayer, MD, West Virginia University. **Utilization of a Community of Practice for Impactful Participation of Rural Primary Care Sites in Clinical Trials.** CTR. Flash Talk.

10:45AM - 12:00PM

Wednesday, June 17

Brookside & Brookside Foyer

### **Meet the Funders: One-on-One Time with Staff from Federal Agencies**

Do you have a question for your program officer? Want some advice about the direction of research funding? Does your institution need an expensive instrument, and you want to know if NIH or other federal agencies could support it? Want to know more about how to interpret your proposal reviews? Are you interested in obtaining funding from the NIH or other federal agencies but don't know how to proceed? Make time to attend this session where you will be able to ask the questions you've always wanted to ask and find out about receiving NIH or other federal agency support in small roundtable settings that give you one-on-one access to NIH staff from many different Institutes and Centers and staff from other federal agencies. *To participate in this session, attendees will be REQUIRED to schedule an appointment through the NISBRE app. All appointments will be conducted in a 1:1 meeting format due to limited table space at the conference venue.*

10:45AM - 12:00PM

Wednesday, June 17

Glen Echo

### **Machine Learning and Artificial Intelligence Approaches Using Data to Improve Health**

**Moderator:** Ram Samudrala, Professor, Biomedical Informatics, University at Buffalo, Other, LBRN, EAC member for LBRN

**Panelist:** Rammohan Shukla, Assistant Professor, Zoology and Physiology/Neurosciences, University of Wyoming, COBRE, Sensory Biology Center

**Panelist:** Md Tamjidul Hoque, Professor, Department of Computer Science, University of New Orleans, INBRE, Louisiana Biomedical Research Network (LBRN)

**Panelist:** Elizabeth Chen, Associate Professor & Interim Director, Center for Biomedical Informatics, Brown University, CTR, Advance RI-CTR

Hear from data scientists using real-world data platforms in health research. Researchers will share examples of how machine-learning and artificial intelligence can be used to uncover patterns, predict outcomes, and personalize interventions to improve public health and patient outcomes. Join us to gain insights into new models driving the future of data-driven health science.

10:45AM - 12:00PM

Wednesday, June 17

Strathmore

### **Completing Research Performance Progress Report (RPPR) Documentation**

**Moderator:** Yang Zhou, Program Officer, NIGMS, NIH, NIH Staff, INBRE

**Panelist:** Maria Jamela Revilla, Program Director, DRCB, NIGMS-NIH, NIH Staff, COBRE

**Panelist:** Kyungsook Gartrell, Program Officer, Division for Research Capacity Building, NIH/National Institute of General Medical Sciences, NIH Staff, CTR

Hear from NIH Program Officers about common mistakes in the post-awards reporting process. Learn about IDeA-specific (COBRE, INBRE, CTR) reporting requirements for the Research Performance Progress Report (RPPR). Bring your questions to this dynamic discussion.

10:45AM - 12:00PM

Wednesday, June 17

Forest Glen

### **Balancing Promotion, Tenure, and Research Needs to Meet Early Career Benchmarks**

**Moderator:** Olivia George, Associate Professor, Mathematics, Natural and Health Sciences, University of Hawai'i West O'ahu, INBRE, Hawaii-INBRE

**Panelist:** Charlie Irvin, Professor, Medicine, University of Vermont, ITrep, NIGMS

**Panelist:** Ming Lei, Interim Vice President, Research, West Virginia University, WVU IDeA Programs, Institutional Officer

**Panelist:** David Seder, Professor and Chair, Critical Care Services, MaineHealth Maine Medical Center, COBRE, COBRE in Acute Care Research and Rural Health

Learn about the importance of early career benchmarks during this interactive session. Panelists will discuss the importance of balancing promotion, tenure, and research needs. Hear about ways to establish an independent record of publication, gain experience reviewing for academic journals, strategies for increasing professional networks, considerations in the selection of external letter writers, ideas for protecting writing time and using start-up funds to collect preliminary data. Spend time discussing the importance of work-life balance to prevent burnout during this critical career stage.

10:45AM - 12:00PM

Wednesday, June 17

White Oak A

## **Administrative and Core Presentations: Research Infrastructure, Cores, and Enabling Technologies**

**Co-Chair:** Anthony Amend, Professor, University of Hawai'i at Mānoa, COBRE, Integrated Center for Environmental Microbiomes and Human Health

**Co-Chair:** Jim Coffman, Associate Professor, Davis Center for Regenerative Biology and Aging, MDI Biological Laboratory, INBRE, Maine Biomedical Research Network (INBRE)

Join this session of scientific presentations for a mix of short research presentations (12 minutes) and flash talks (3 minutes). See below for a detailed list of presenters and talk titles:

Bichar Dip Shrestha Gurung, University of South Dakota. **Development of TNBC-Twin: An AI/ML-Powered Digital Twin Framework for Triple-Negative Breast Cancer Therapy Prediction.** INBRE. Short Research Presentation.

Jennifer Wenner, Dartmouth College. **Data-Driven Decision Making: Putting Data into Action Using Data Review Sessions.** COBRE, INBRE. Short Research Presentation.

Jonathan D. Baker, Chaminade University of Honolulu. **PIKO IDeA-Center for Translation Research Years 1-4: Growth in Capacity and Infrastructure Expansion.** CTR. Short Research Presentation.

Trupti Joshi, Marshall University. **Translational Bioinformatics Resources and AI Solutions for Biomedical Multiomics Research at WV-INBRE.** INBRE. Flash Talk.

Qinggong Tang, University of Oklahoma. **The Medical Imaging Technology Development Core (MITDC): Advancing Cancer Imaging Through Multimodal Technologies and Quantitative Analysis.** COBRE. Flash Talk.

Judy Cannon, University of New Mexico. **Autophagy, Inflammation, and Metabolism (AIM) Center for Biomedical Research Excellence at the University of New Mexico Health Science Center.** COBRE. Flash Talk.

Sushma Bharrhan, LSU Health Shreveport. **From Service to Catalyst: COBRE Immunophenotyping Core Drives Institution-Wide Flow Cytometry Advancement.** COBRE. Flash Talk.

Peng Zhang, Brown University & Ocean State Research Institute. **Mitochondrial Function and In Vivo Imaging (MF-II) Core Provides Centralized Unique Technical Services to Facilitates Basic and Translational Cardiopulmonary Vascular Biology Research in Rhode Island.** COBRE. Flash Talk.

10:45AM - 12:00PM

Wednesday, June 17

White Oak B

## **Vertebrate Animal Policy and Alternatives to Animal Studies**

**Organizer:** Nicolette Petervary, Director, Division of Policy and Education, Office of Laboratory Animal Welfare, National Institutes of Health, NIH Staff

**Organizer:** Olga Kovbasnjuk, Program Director, NIGMS/DRCB, NIH, COBRE, NIH

Wondering about how to navigate requirements for animal research in NIH grant applications? This session provides an overview of animal-related requirements and tips to help with your applications. We will also discuss the recent NIH announcements on prioritizing animal use reduction and human based new-approach methodologies. Together we will explore approaches to help you determine if such methods are a good fit for your project, how to explain your choices of research model in a clear and compelling way, and answer your questions. This is an interactive session and active participation is welcomed!

12:00PM - 1:15PM

Wednesday, June 17

Grand Ballroom

### **Working Lunch with Table Topic Discussions**

We encourage you to network with colleagues during lunch. Tables will be held for breakout discussions focused on various topics of interest. No reservations are required.

1:15PM – 2:15PM

Monday, June 15

Strathmore

### **Guidance for the Submission of Post-Award Materials to NIH**

**Organizer:** Arina Kramer, Grants Management Specialist, Grants Administration Branch, NIGMS/NIH, NIH Staff

Hear from NIH Program Officers and Grants Management specialists about common issues during the submission of post-awards materials. Ask your questions and get detailed information about the submission of replacement project leader and pilot project applications, as well as carryover and other prior approval requests.

1:15PM – 3:00PM

Wednesday, June 17

Salon ABC

### **Scientific and Core Poster Session III**

Join us in the Salon ABC for this exciting session! Check the NISBRE at Glance Pamphlet (available in print, on the NISBRE app, and on the conference website) for a list of this year's poster presentations. Posters are listed by assigned poster number and organized by theme. Please remember to vote for your favorite poster(s) in the NISBRE People's Choice Poster Awards by using the QR code located at each poster presentation. Numerous award categories are available, and winners will be announced during the awards ceremony.

3:15PM - 4:45PM

Wednesday, June 17

Grand Ballroom

### **Awards Ceremony and Closing Reception**

All attendees are invited to attend the NISBRE2026 Awards Ceremony and Closing Reception. We will have a dessert bar and cash bar available.

# BREAKFAST & LUNCH TABLE TOPIC DISCUSSIONS

General discussions will be held on Monday, Tuesday, and Wednesday during meals. A list of topics is provided below. Look for the topic signs on each table!

## Breakfast (Grand Ballroom)

Network with other attendees and meet individuals who share similar experiences.

Administrators and Coordinators	Core Managers
Basic Science Research	Early-Stage Investigators
Behavioral Science Research	Evaluators
Business and Finance Experts	Graduate Students
Center Directors	Postdoctoral Researchers
Clinical Science Research	Translational Science Research
Communications Experts	Undergraduate Students

## Lunch (Grand Ballroom)

Network with other attendees around various scientific or administrative topics.

Aging and Cognition	Infectious Disease
Artificial Intelligence	I-RED
Biotechnology and Bioengineering	Lung Disorders
Cancer and Disease Risk	Macrobiome and Microbiome
Cardiovascular Disease	Mental and Behavioral Health
Cerebrovascular Disease	Model Organisms
Child and Adolescent Sleep	Musculoskeletal Disorders
Child and Adolescent Mental Health	NAIPI
Data Science	Neuroscience
Dementia and Cognitive Decline	Obesity, Nutrition, and Metabolism
Environment and Health	Organoids and Model Organisms
Evaluation and Broader Impacts	Pain and Pain Management
Fellowships	PEARL
Genetics and Genomics	Rural Health
Human Development	Structural Biology
Immunology and Inflammation	Substance Use and Misuse
Implementation Science	Training Programs
Industry Relationships	Women's Health

*Don't see a topic you want to discuss? Visit the registration desk to add a topic to breakfast or lunch rotations!*

# NIH TABLE TOPIC DISCUSSIONS

NIH table topics, as well as the individuals participating, are subject to change without prior notice.

## Monday, June 15, 2026

<b>Breakfast (8:00AM - 9:00AM ET, Grand Ballroom)</b>			
<b>Table</b>	<b>Institute/Center/Office/Program</b>	<b>NIH Participant</b>	<b>Table Topic Discussion</b>
A	NCATS, Intramural Training	Belen Hurle	Translational Science Training Opportunities at the NCATS
B	NLM DIR, Intramural Training	Betsy Clark	Computational Research to Solve Biomedical Problems
C	NIH, NIAMS, Intramural Training	Janelle Hauserman	NIAMS Intramural Research Program Training
D	NCI, Extramural Funding	Justin Benavidez	Funding for Basic Cancer Research
E	NICHD, Intramural Training	Megan Bohn & Erin Walsh	NIH Intramural Research Opportunities - NICHD
F	NIAID/ORTSP, Extramural Training	Carmen Moten	General Discussion

<b>Lunch (11:45AM - 1:15PM ET, Grand Ballroom)</b>			
<b>Table</b>	<b>Institute/Center/Office/Program</b>	<b>NIH Participant</b>	<b>Table Topic Discussion</b>
A	NCATS, Intramural Training	Belen Hurle	Translational Science Training Opportunities at the NCATS
C	NIH, NIAMS, Intramural Training	Janelle Hauserman	NIAMS Intramural Research Program Training
D	NCI, Extramural Funding	Justin Benavidez	Funding for Basic Cancer Research
E	NICHD, Intramural Training	Megan Bohn	NIH Intramural Research Opportunities - NICHD
F	NIAID/ORTSP, Extramural Training	Carmen Moten	General Discussion
G	NINDS Training Programs	Faith Plante	NINDS Intramural Research Training
H	NINDS/OTWD, Extramural Funding	Joshua Sanchez	Support for Research Excellence R16
I	NIAID/DEA, Extramural Funding	Priti Mehrotra	Fellowships, Development, Educational, and Training Grant, SuRE
J	OD/ORIP/DCI, Extramural Funding	Jeffrey Spector	S15 Shared Equipment Grants, S10 Shared Instrumentation Grants

# NIH TABLE TOPIC DISCUSSIONS

NIH table topics, as well as the individuals participating, are subject to change without prior notice.

**Tuesday, June 16, 2026**

<b>Breakfast (8:00AM - 9:00AM ET, Grand Ballroom)</b>			
<b>Table</b>	<b>Institute/Center/Office/Program</b>	<b>NIH Participant</b>	<b>Table Topic Discussion</b>
A	NCATS, Intramural Training	Belen Hurle	Translational Science Training Opportunities at the NCATS
B	NLM DIR, Intramural Training	Betsy Clark	Computational Research to Solve Biomedical Problems
C	NIH, NIAMS, Intramural Training	Janelle Hauserman	NIAMS Intramural Research Program Training
D	NCI, Extramural Funding	Justin Benavidez	Funding for Basic Cancer Research
E	NICHD, Intramural Training	Megan Bohn & Erin Walsh	NIH Intramural Research Opportunities - NICHD
F	NIAID/ORTSP, Extramural Training	Carmen Moten	General Discussion
H	NINDS/OTWD, Extramural Funding	Joshua Sanchez	Support for Research Excellence R16

<b>Lunch (11:45AM - 1:15PM ET, Grand Ballroom)</b>			
<b>Table</b>	<b>Institute/Center/Office/Program</b>	<b>NIH Participant</b>	<b>Table Topic Discussion</b>
A	NCATS, Intramural Training	Belen Hurle	Translational Science Training Opportunities at the NCATS
C	NIH, NIAMS, Intramural Training	Janelle Hauserman	NIAMS Intramural Research Program Training
D	NCI, Extramural Funding	Justin Benavidez	Funding for Basic Cancer Research
E	NICHD, Intramural Training	Megan Bohn & Erin Walsh	NIH Intramural Research Opportunities - NICHD
F	NIAID/ORTSP, Extramural Training	Carmen Moten	General Discussion
G	NINDS Training Programs	Faith Plante	NINDS Intramural Research Training
H	NINDS/OTWD, Extramural Funding	Joshua Sanchez	Support for Research Excellence R16
I	NIAID/DEA, Extramural Funding	Priti Mehrotra	Fellowships, Development, Educational, and Training Grant, SuRE
J	OD/ORIP/DCI, Extramural Funding	Jeffrey Spector	S15 Shared Equipment Grants, S10 Shared Instrumentation Grants
K	NCI-CCR, Intramural Training	Shauna Clark	Intramural Training at NCI
L	CCT/NCI/NIH, Extramural Funding	Anu Puri	NRSA F30, F31 Award
M	NEI, Intramural Training	Cesar Perez-Gonzalez	Training Opportunities at the National Eye Institute
N	NCI, CRCHD, Intramural/Extramural Training	Jessica Calzola	iCURE, CPACH, R25 YES, C2PT
O	NIDCD, Intramural Training	Elyssa Monzack & Melanie Barzik	Training in Hearing, Balance, Taste, and Smell Research at the NIH

# NIH TABLE TOPIC DISCUSSIONS

*NIH table topics, as well as the individuals participating, are subject to change without prior notice.*

## Wednesday, June 17, 2026

<b>Breakfast (8:00AM - 9:00AM ET, Grand Ballroom)</b>			
<b>Table</b>	<b>Institute/Center/Office/Program</b>	<b>NIH Participant</b>	<b>Table Topic Discussion</b>
A	NCATS, Intramural Training	Belen Hurlle	Translational Science Training Opportunities at the NCATS
B	NLM DIR, Intramural Training	Betsy Clark	Computational Research to Solve Biomedical Problems
C	NIH, NIAMS, Intramural Training	Janelle Hauserman	NIAMS Intramural Research Program Training
D	NCI, Extramural Funding	Justin Benavidez	Funding for Basic Cancer Research
E	NICHD, Intramural Training	Megan Bohn & Erin Walsh	NIH Intramural Research Opportunities - NICHD
F	NIAID/ORTSP, Extramural Training	Carmen Moten	General Discussion
H	NINDS/OTWD, Extramural Funding	Joshua Sanchez	Support for Research Excellence R16

<b>Lunch (12:00PM - 1:15PM ET, Grand Ballroom)</b>			
<b>Table</b>	<b>Institute/Center/Office/Program</b>	<b>NIH Participant</b>	<b>Table Topic Discussion</b>
A	NCATS, Intramural Training	Belen Hurlle	Translational Science Training Opportunities at the NCATS
B	NLM DIR, Intramural Training	Betsy Clark	Computational Research to Solve Biomedical Problems
C	NIH, NIAMS, Intramural Training	Janelle Hauserman	NIAMS Intramural Research Program Training
D	NCI, Extramural Funding	Justin Benavidez	Funding for Basic Cancer Research
E	NICHD, Intramural Training	Megan Bohn & Erin Walsh	NIH Intramural Research Opportunities - NICHD
F	NIAID/ORTSP, Extramural Training	Carmen Moten	General Discussion
G	NINDS Training Programs	Faith Plante	NINDS Intramural Research Training
H	NINDS/OTWD, Extramural Funding	Joshua Sanchez	Support for Research Excellence R16
I	NIAID/DEA, Extramural Funding	Priti Mehrotra	Fellowships, Development, Educational, and Training Grant, SuRE
J	OD/ORIP/DCI, Extramural Funding	Jeffrey Spector	S15 Shared Equipment Grants, S10 Shared Instrumentation Grants
K	NCI-CCR, Intramural Training	Shauna Clark	Intramural Training at NCI
L	CCT/NCI/NIH, Extramural Funding	Anu Puri	NRSA F30, F31 Award
N	NCI, CRCHD, Intramural/Extramural Training	Jessica Calzola	iCURE, CPACH, R25 YES, C2PT
P	NINDS OTWD, Extramural Funding	Lauren Ullrich	NINDS Training Programs

# NISBRE2026

## Poster Presentations

Posters are listed by day, topic, and assigned poster number. Topical areas have been listed in alphabetical order for each day. All posters will be displayed in Salon ABC. Please remember to vote for your favorite poster(s) in the NISBRE People's Choice Poster Awards available using the Qualtrics QR Code. Numerous award categories are available.

### Monday, June 15, 2026

#### Administrative and Core Facility

1. Abigail Kaija, MaineHealth Institute for Research. **Development of Clinically Relevant Mouse Models for Research.** CTR.
2. Angela Kull, Dartmouth College, Geisel School of Medicine. **bioMT Core Facilities: Advancing Research at Dartmouth College.** COBRE.
3. Carmen J. Buxó-Martínez, Alliance for Clinical and Translational Research (Alliance IDeA CTR-N), San Juan, Puerto Rico. **Building a Sustainable Clinical and Translational Research Workforce: The Investigator Development Pipeline Program (IDPP) of the Alliance CTR-N.** CTR.
4. Chelsea G. Miller, University of Hawaii at Manoa. **Genome on the Go: Decentralizing Molecular Biology Education through Portable Genomics Tools and Near-Peer Mentorship.** INBRE.
5. Claire Rudolph, ChristianaCare. **Implementing a Skills Based Matching Platform to Strengthen Research Collaboration Within an INBRE Affiliated Institution.** INBRE.
6. Craig Porter, Arkansas Children's Research Institute. **Ensuring Long-term Sustainability of COBRE Core Resources Through Centralized Leadership and Management.** COBRE.
7. Cyndy Buckhaults, SC INBRE/USC School of Medicine. **Getting the Word Out: SC INBRE's Approach to Building Communication Across a Statewide Network.** INBRE.
8. Daria Chefan, University of Delaware. **i-GONAD Genome Editing: Enabling Cost-Effective Mouse Model Generation in Small Institutional Cores.** COBRE.
9. Eduardo E Romero Camacho, University of Nebraska-Lincoln. **NCIBC Light and Electron Microscopy Core Facility: CryoEM workflows at the University of Nebraska-Lincoln.** COBRE.
10. Filipa Godoy-Vitorino, University of Puerto Rico, School of Medicine. **The new COBRE Puerto Rico Center for Microbiome Sciences.** COBRE.
11. Michael G. Nichols, Creighton University. **Mass Spectrometry Applications at Creighton University's Mass Spectrometry Core.** COBRE.
12. Jackilyn E Hemphill, Montana State University. **Rethinking Aqueous Behavior of PFOA: Indications of Aggregation.** INBRE.
13. Jennifer Wenner, Dartmouth College. **Evaluating COBRE Research Core Effectiveness.** COBRE, INBRE.
14. Jessica Sampson, University of Delaware. **High Throughput Experimentation and Chromatography at the University of Delaware.** COBRE, INBRE.

15. John C. Marecki, University of Arkansas for Medical Sciences. **The UAMS Center for Molecular Interactions in Cancer (CMIC) Biomolecular Interactions Core (BIC).** COBRE.
16. Kate Karelina Weil, West Virginia University. **WVU Rodent Experimental Stroke and Surgical Core.** COBRE.
17. Marla Jayne Berry, University of Hawaii at Manoa. **University of Hawaii Precision Nutrition COBRE 2026.** COBRE.
18. Mystera Samuelson, University of Nebraska Medical Center. **The UNMC Animal Behavior Core: Overview & Impacts.** COBRE.
19. Pam Borek, The Miriam Hospital. **Technology, Assessment, Data, and Analysis Core.** COBRE.
20. Prateek Verma, University of Arkansas. **Data Science Core of Arkansas Integrative Metabolic Research Center.** COBRE.
21. Ryan Grigsby, University of Kansas. **University of Kansas Nanofabrication Facility: Equipment and Capabilities.** COBRE.
22. Shalon Howard, University of South Carolina. **Advancing Resident & Fellow Physician-Scientists Through Structured Research Development: ClinTrUSC RADAR Program.** CTR.
23. Simon Chung, Arkansas Children's Research Institute and University of Arkansas for Medical Sciences. **Biostatistics Core of the Center for Childhood Obesity Prevention at Arkansas Children's Research Institute.** COBRE.
24. Thomas Gallien, Clemson University. **South Carolina COBRE for Translational Research Improving Musculoskeletal Health.** COBRE.
25. Yina Huang, Dartmouth College. **NH-INBRE: First 15 Years of Impact on NH's Research Training, Infrastructure, Capacity, and Biomedical Workforce.** INBRE.

## AI-Powered Surveillance, Data Science, and Machine Learning

26. Angelica Valdez, University of Hawai'i at Mānoa. **From Pilot to Powerhouse: The Multi-year Evolution of a Bioinformatics Training Program.** INBRE.
27. Cagri Ozdemir, Delaware State University. **Pathway-aware Multimodal Fusion for Breast Cancer Recurrence Prediction.** CTR.
28. Devesh Sarda, Louisiana State University Shreveport (LSUS). **Automatic Cognitive Classification for Alzheimer's Disease using 3D Modeling of fMRIs.** INBRE.
29. Ochiabuto Jideofor, Louisiana State University Shreveport. **Reducing Low-yield Colonoscopy using Machine Learning.** INBRE.
30. Qinghao Zhang, University of Oklahoma. **Optical Coherence Tomography Evaluation of Mebendazole Therapeutic Efficacy in Ovarian Cancer Xenografts.** COBRE.
31. Yuye Ling, University of Oklahoma. **AI-Empowered System-Algorithm Co-Design for High-Speed Optical Coherence Tomography.** COBRE.

## Cancer

32. Amanda Ashley, New Mexico State University. **Assessing Innate Toxicity and Inflammatory Signaling of Cannabidiol Derivatives in Mammalian Cells.** INBRE.

33. Angelis Milete, Universidad Central del Caribe. **Thera-GRP Drives Apoptotic Cell Death and Disrupts Metabolic Signaling in Glioblastoma.** INBRE.
34. Ashton Dean, University of Charleston. **The Role of N-Myc Downstream Regulated 1 (NDRG1) in clear cell Renal Cell Carcinoma.** INBRE.
35. Christen Woods, SUBR. **Structure-Guided  $\delta/\gamma$ -Lactam Immunomodulators Define a Novel Redox-sEH Axis that Enhances Oncolytic HSV-1 Efficacy in Resistant Melanoma.** INBRE.
36. Connor Westfall, University of Central Oklahoma. **Design of Non-Reciprocal Heat Flow Scaffold for Magnetic Hyperthermia.** INBRE.
37. Elizabeth Larson, Montana State University Billings. **Analysis of Protein Interaction Between B7-H3 and MDK by Mutagenesis.** INBRE.
38. Emily Jean Avery, Eastern Kentucky University. **Utilization of Antioxidants for the Improved Efficacy of Established Prostate Cancer Treatment Strategies.** INBRE.
39. Ganesan Muthusamy, Louisiana State University. **Chemoresistance Rewires Lipid and Redox Metabolism to Create a Cystine-Dependent Ferroptosis Vulnerability in Ovarian Cancer.** COBRE.
40. Jack Moellenkamp, University of North Dakota. **Exposure to Heavy Metals and the Tobacco Smoke Carcinogen NNK (Nicotine-derived Nitrosamine Ketone or 4-methylnitrosamino-1-3-pyridyl-1-butanone) Can Affect the Development of the Basal Sub-type of Bladder Cancer.** INBRE.
41. Karoline Rios-Rodriguez, Universidad Ana G. Mendez, Recinto Cupey. **Comparison of the Cytotoxicity Effects and Marker Potential of BQs Analogs on Human Melanoma Cells under Normoxic and Hypoxic Conditions.** INBRE.
42. Keishly Pagan Espinosa, University of Puerto Rico at Humacao. **Gallium Maltolate Disrupts Iron-Dependent Bioenergetics and Induces Concentration-Dependent Cytotoxicity in Glioblastoma.** INBRE.
43. Leila Rahimian, Louisiana State University. **Synthesis and Biological Assessment of Functionalized Lactams as Potential Therapeutics for Triple-Negative Breast Cancer.** COBRE.
44. Maddox Johnson, Pittsburg State University. **RNA Structure-Based Targeting of MALAT1 Modulates Triple-Negative Breast Cancer Cell Behavior.** INBRE.
45. Melanie Medellin, Arkansas State University. **Synthesis and Cytotoxic Studies of Bis(trifluoromethyl) Phenyl Thiourea Derivatives.** INBRE.
46. Mohammed Tanveer Hussain, Louisiana State University. **Targeting Cervical Cancer: VC-2 as a Vaccine and Treatment for HPV infections.** COBRE.
47. Poorna Sai Vaddi, Southern University. **Oncolytic Virotherapy as a Dual Modulator of Tumor Immunity and Stemness in Glioblastoma.** COBRE.
48. Siam Chowdhury, Arkansas State University. **Docking Studies of Thiazole and Imidazole Fused Derivatives against mTOR Proteins.** INBRE.
49. Tej Nath Lamichhane, University of Central Oklahoma. **Latest Strategies in the Synthesis and Characterization of Chiral Magnetic Nanoparticles for Cancer Research.** INBRE.
50. Udaysinh Rahul Kumar Rathod, Louisiana State University Shreveport. **Mortality Outcomes of Colorectal Cancer on Long Panel PLCO Using Machine Learning.** INBRE.
51. Jian Zhao, University of Oklahoma. **Computational Chemical Microscopy Imaging.** COBRE.

## Cardiovascular Biology, Cerebrovascular Biology, and Stroke

52. Graden Baker, Eastern Kentucky University. **Vasicine Exhibits Dual Antiplatelet and Anticoagulant Activity In Vitro.** INBRE.
53. Kylie Bentley, University of Pikeville. **Transient Plant-Based Production of Bioactive Nattokinase for Thrombolytic Applications.** INBRE.
54. William Weader, University of Wyoming. **Citrullination and Aging in Female Mice: Investigating the Patterns of Peptidylarginine Deiminase 2 Production.** INBRE.

## Chronic Disease Mechanisms, Risk, and Prevention

55. Carole A. Oskeritzian, University of South Carolina. **Resveratrol as a Targeted Inhibitor of Signaling Pathways in Mast Cell-initiated Skin Inflammation: A Mechanistic Study with Promising Preclinical and Pre-translational Outcomes.** COBRE.
56. Grace Tieg, Lewis-Clark State College. **BTEX and PM2.5 from Wildfire Smoke in the Western United States.** INBRE.
57. Kristen C Johnson, UNH Manchester. **From Flatworms to Humans: Discovering New Regulators of Ciliary Function.** INBRE.
58. Raja Gaddam, UNH Manchester. **Functional Investigation of CEP290 in Ciliary Signaling and Adipocyte Differentiation Using Planaria and 3T3-L1 Systems.** INBRE.
59. Robert Rosales, Brown University. **Alcohol Use Mediates the Effects of Discrimination on Binge Eating Among Hispanic Adults with Obesity who Binge Drink.** COBRE.
60. Sujoy Ghosh, Pennington Biomedical Research Center. **Regulation of Epitranscriptomic Modifiers in Adipose Tissue from Mouse Models of Obesity and Type 2 Diabetes.** COBRE.
61. Ethan Wilkins, Mississippi University for Women. **Upregulation of the Predominant Cystic Fibrosis Causing Mutation,  $\Delta F508$ -CFTR, by Triazole Compounds in Epithelial Cells.** INBRE.
62. Oluwaseyi Oyewole, West Virginia University School of Medicine. **Ozone-induced Lipid Dysregulation and its Effects on Pulmonary Inflammation.** COBRE.

## Genetic and Gene-Environment Interactions

63. Danika Maki, Northern Kentucky University. **Determination of the Translational Effect of 2'-O-methylation at Positions 32 and 34 in Eukaryotic tRNA.** INBRE.
64. Johannes Smal, Northern Kentucky University. **Identifying Functionally Critical Residues in Trm732 Through Mutagenesis and Next Generation Sequencing.** INBRE.
65. Nhyira Sarpong, Northern Kentucky University. **Exploring The Effects of Folate Cycle Perturbations On The Methyl Cycle and Genome Stability.** INBRE.
66. Victoria Stepka, University of Mary. **Quantifying Morphological Differences with Landmark-free Morphometrics.** INBRE.

## Health Across the Lifespan and Lifestyle Interventions for Disease Prevention (Children's Health, Nutrition, Obesity, and Aging)

67. Augustine Nwafor, Louisiana State University Shreveport. **A Wearable Dual-IMU Framework for Real-Time Knee Motion Analysis and ACL Injury Risk Assessment.** INBRE.
68. Jacqueline Stephens, Pennington Biomedical. **Loss of Adipocyte KAT8, a Lysine Acetyltransferase, Confers Lipotrophy and Metabolic Dysfunction.** COBRE.
69. Jung Eun Lee, University of Rhode Island College of Nursing. **SMILE: A Chatbot-Based Self-Management Intervention for Older Adults Living Alone with Multimorbidity.** CTR.
70. Lisa T. Jansen, Arkansas Children's Nutrition Center - University of Arkansas for Medical Sciences. **Design of Micro Lessons for Remote Healthy Pregnancy Support in Arkansas: A Behavioral Intervention Support Tool for the GEM Study.** COBRE.
71. Patricia Young, Hawaii Pacific University. **Effects of a Hula-based Intervention on Balance and Fall Risk in Native Hawaiian and Pacific Islander Older Adults: A Pilot Study.** INBRE, CTR.
72. Yuan Wen, University of Kentucky. **Mapping Stem Cell Extracellular Vesicle Recipients Reveals Age-Dependent Retargeting.** COBRE.
73. Baily Isaak, University of Wyoming. **Female Peptidylarginine Deiminase 2 and 4 Double Knockout Mice have Abnormal Estrous Cycles and Reduced Fertility.** INBRE.

## Microbiology and Infectious Disease

74. Abigail Straight, University of Wyoming. **Mechanisms of PopZ-Mediated Client Recruitment.** INBRE.
75. Andrea Grindeland Panter, Weissman Hood Institute at Touro; McLaughlin Research Institute. **Advancing Antemortem Detection of Chronic Wasting Disease Through Plasma Biomarkers and Comprehensive Phenotypic Profiling.** COBRE.
76. Bryan Benitez, University of Nebraska Medical Center. **Evaluating Bimane-CGH as a Site-Specific Probe for the Active Site of Mycobacterium tuberculosis EgtD.** INBRE.
77. Erik Yukl, New Mexico State University. **H-NOX and NosP Regulate Motility and Virulence Factor Production in Vibrio cholerae.** INBRE.
78. Hayden Leavitt, College of Eastern Idaho. **A Comparative Analysis of Wolbachia Strains Present in Flies Around the College of Eastern Idaho Campus.** INBRE.
79. Julie A Dragon, University of Vermont. **The Tick Interrogation Class (TIC).** INBRE.
80. Mackenzie Hall, West Liberty University. **Characterization of Resorufin Derivatives with Antimicrobial Activity Against Neisseria gonorrhoeae.** INBRE.
81. Megan A Barela Hudgell, Northern New Mexico College. **Identification and Annotation of Syntenic Regions Containing Major Histocompatibility Complex Class II Genes within Three Pupfish (Cyprinodontidae) Species.** INBRE.
82. Mya Tena, University of Mary. **Genes from F1 Subcluster Bacteriophages that Affect the Host Infectivity of Multiple Mycobacterium Species.** INBRE.
83. Owen Long, Biology Department, Pittsburg State University. **Metagenome Analysis of Poultry Litter Collected from Farms Across Eastern Region of Kansas with a Focus on Antibiotic Resistant and Foodborne Pathogens.** INBRE.

84. Sabrina Faozia, Infectious Diseases Section, Veterans Affairs Medical Center, Boise, ID; Idaho Veterans Research and Education Foundation. **Establishing Functional Assays for Streptococcal Exotoxins SpeA and SpeB to Enable Antitoxin Therapeutics.** INBRE.
85. Stephanie E. Ander, Louisiana State University Health Shreveport. **Regulation of Viral Dissemination by Specific Heparan Sulfate Interactions.** COBRE.
86. Tirumalai Rangasamy, Louisiana State University. **Development of Human Lung Mesenchymal Stem Cell-based Interventions Against Infection Caused by Multidrug-resistant Gram-negative and Gram-positive Bacterial Pathogens.** COBRE.
87. Dylan Muse, University of Central Oklahoma. **Development of Corrosion Resistant Antibacterial Non-Woven Nano Fiber Coatings.** INBRE.
88. Jason Kuhn, University of Alaska Southeast. **Advancing the Molecular Detection of Harmful Algal Bloom Species to Improve Toxin Monitoring by Coastal Communities.** INBRE.

## Neurodevelopment, Behavioral and Mental Health, and Related Comorbidities (Tobacco, Alcohol, Drug Misuse)

89. Anastacia Kudinova, Alpert Medical School of Brown University. **When Social Media Follows Teens to Bed: Exploring Social Media Use Concerns and Sleep Quality in Adolescents.** COBRE.
90. Elizabeth Murnane, Dartmouth College. **Community-Engaged Design and Implementation of a Just-In-Time Adaptive Intervention (JITAI) to Improve Adolescent Stress and Anxiety in Rural Populations.** COBRE.
91. Jorlyann M. Campos Ortiz, Department of Biology, University of Puerto Rico-Cayey. **Evaluation of the Neuroproteomic Response: Padina vs. Stypopodium Treatment in Drosophila melanogaster.** INBRE.
92. Madeline Wildman, Western Kentucky University. **Therapy Engagement Patterns Among College Students with NSSI and Mood Disorders.** INBRE.
93. Ruben G. Martinez, Department of Psychiatry and Human Behavior, Brown University. **Post-injury Mental Health Care: An Interim Analysis of A Pilot Pre-Implementation Study to Inform Programming.** COBRE, CTR.
94. Taylor Kalgren, Western Kentucky University. **Suicidal Ideation, Social Media, and Sleep in a Community Sample of Young Adults.** INBRE.
95. Rammohan Shukla, University of Wyoming. **Genetic Architecture of Ribosome Biology Across Psychiatric Disorders.** COBRE, INBRE.

## Neuroscience and Neurological Disorders

96. Aya Naser, Clemson University. **Differentiation of Human Dental Pulp Stem Cells to Neuron-Like Cells in 3D Hydrogel Cultures for Neurodegenerative Diseases.** CTR.
97. Dakota Green, Boise State University. **Effects of Opioids on Ventral Pallidum Neuronal Populations.** COBRE.
98. Ethan Forbis, University of Wyoming. **Refining Circadian Biomarkers: Core Temperature Logging as an Alternative to Exercise-Derived Metrics.** INBRE.
99. Gustavo Adolfo Hernandez, University of Wyoming. **Tick Tock Exercise O'Clock.** COBRE.

100. Jessica Riggs, Lewis-Clark State College. **Loss of Bim Helicase Alters Circadian Period in *Drosophila melanogaster***. INBRE.
101. Makayla Ellison, Furman University. **The Time-Dependent Effects of Taste Experience on Neural Plasticity, Learning, and Taste Discrimination**. INBRE.
102. Miranda Mireles Flores, Furman University. **The Impact of Motivation and Hedonic Feeding during Pregnancy on Future Taste Behaviors in Offspring**. INBRE.
103. Patrick Ledwidge, Western Kentucky University. **A Mobile EEG Approach for Examining Brain Dynamics of Suboptimal Cognitive-Motor Integration and Injury-Risk Biomechanics during Running**. INBRE.
104. Peng Zhong, University of Nebraska Medical Center. **Sleep Disruptions in the Tauopathy Condition of Neurodegenerative Disease**. COBRE.

## Structural and Cell Biology

105. Alongkorn Kurilung, Center for Musculoskeletal Disease Research, University of Arkansas for Medical Sciences. **Dnase1B-Mediated Production of Extrachromosomal Circular DNA by Osteoblastic Cells Regulates Bone Mass**. COBRE.
106. Bradley Webb, West Virginia University, Department of Biochemistry and Molecular Medicine. **Structural Basis of PFK1 Autoinhibition and Filament-Driven Compartmentalization of Glycolysis**. COBRE.
107. Clara Davis, The College of Idaho. **Methylene Blue Enhancement of Neuro-regeneration and Blastema Cellular Density in *Dugesia tigrina***. INBRE.
108. Daniel Cline, Creighton University. **Structural analysis of *Crassostrea gigas* OAZ-PK RNA via Selective 2'-Hydroxyl Acylation analyzed by Primer Extension (SHAPE)**. INBRE.
109. Emily Stotts, West Liberty University. **Thyroxine Exposure Enhances Late Stage Osteoblast Maturation in Cranial Sutures From Embryonic Chickens Using an Avian Model of Induced Thyrotoxicosis**. INBRE.
110. Giancarlo J. Nevado Cruz, University of Puerto Rico, Mayagüez Campus. **Expression and Purification of the Cytoplasmic Tail of Wsc2p, a Domain Directly Involved in the CWI Pathway, for Future Crystallographic Studies**. INBRE.
111. Irosha Nawarathne, Lyon College. **Undergraduate-Driven Biomedical Research at a Liberal Arts College**. INBRE.
112. Joseph Roeder, University of Nebraska at Kearney. **Examining How Vaping Impacts the Response of B Cells to Peanut**. INBRE.
113. Lauren Makenzie Hughes, Wichita State University. **What's Linker Got to Do with It? Examining the Structure and Stability of Palladin's IG3-4 Linker Region**. INBRE.
114. Lynne Dieckman, Creighton University. **Structure and Function of the PCNA-CAF-1 Complex Crucial for Nucleosome Assembly**. INBRE.
115. Marimel Rolón Rivera, University of Puerto Rico Ponce Campus. **Development and Optimization of TGA and PEI-Coated ZnSe Quantum Dots as Selective, Low Cost Nanosensors for Heavy Metal Detection in Water**. INBRE.

116. Nesreen Alsbou, University of Central Oklahoma. **Portable Microwave Imaging Device using Off-The-Shelf Components for in vitro and in vivo Medical Imaging.** INBRE.
117. Priscilla Phan, University of Wyoming. **Investigating the Role of the LINC Complex in Nuclear Morphology Regulation Using *Xenopus laevis* Egg Extracts.** INBRE.
118. Sarah Fowler, Creighton University. **Investigating a Potential Eukaryotic Riboswitch in OAZ mRNA from *Agaricus bisporus* via In-line Probing.** INBRE.
119. Stephanie Limaye, Creighton University. **Biophysical Studies of Two Proteins Involved in Gene Silencing.** INBRE.
120. Zhenhua Shang, University of Louisville. **Exploring the Spatial Transcriptome at Subcellular Resolution via Visium HD.** INBRE.
121. Haley Royce, University of New Hampshire. **Mechanical Tunable Hydrogels with Versatile Adhesive Peptides for Cell Culture.** COBRE.
122. Kristy Kounovsky-Shafer, University of Nebraska - Kearney. **Improved Containment of Large DNA Molecules in an Inverted Insert.** INBRE.
123. Nathan Buchweitz, Clemson University. **Establishing Regional Biomechanical Benchmarks in Caprine Cervical Intervertebral Discs for Allograft Transplantation.** COBRE.
124. Sanja Novak, UAMS. **Inflammation Reveals a Novel CD115<sup>+</sup> Adgre4<sup>+</sup> Myeloid Osteoclast Progenitor Population.** COBRE.

## Tuesday, June 16, 2026

### Administrative and Core Facility

125. Alan Woessner, University of Arkansas. **High-Resolution, Multi-Scale Imaging Across Biological Model Systems: A Core Facility Showcase.** COBRE.
126. Audra Van Wart, Brown University. **Advance RI-CTR K Scholar Career Development Program: A One-year Intensive Program for Developing Early Career Researchers in an IDeA State.** CTR.
127. Chamani Perera, University of Kansas. **The Synthetic Chemical Biology Core (SCB): A Resource for Research in Chemical Biology.** COBRE.
128. Chris WDJurgens, University of North Dakota. **ND INBRE Microscopy Core Facility at the University of North Dakota: Comprehensive Resource for Light Microscopy and Analysis.** INBRE.
129. Claudine Jurkovitz, ChristianaCare Health Services, Inc. **A Multidisciplinary BERD Core Supporting Translational Research Across Delaware: Five-Year Metrics and New Initiatives.** CTR, INBRE.
130. Derald E. Wentzien, Delaware State University. **The Creation of Workshops Designed to Incorporate Data Cleaning Procedures in Methodologies, Budgets, and Timelines.** Other.
131. Eric J. Enemark, University of Arkansas for Medical Sciences. **The Structural Biology Shared Resource of the Arkansas INBRE Research Technology Core and CMIC COBRE.** COBRE, INBRE.
132. Gloria Guevara Alvarez, Geisel School of Medicine, Dartmouth College. **From Frameworks to Fieldwork: Building Implementation Research Capacity in Rural New England and Across the IDeA Network.** COBRE.
133. Hongwei Yao, Providence VA Medical Center. **Cell Isolation and Organ Function (CIOF) Core Strengthens Cardiopulmonary Vascular Biology Research in Rhode Island.** COBRE.

134. James Denvir, Marshall University. **Enabling Education and Research at WV Undergraduate Institutions Through Data Science.** INBRE, CTR.
135. Jennifer Wolff, Emma Pendleton Bradley Hospital COBRE Center on Sleep and Circadian Rhythms in Child and Adolescent Mental Health, Pediatric Biopsychology Research Core. **Bradley Hospital COBRE Center for Sleep and Circadian Rhythms in Child and Adolescent Mental Health: A Pediatric Biopsychology Research Core in a Child Psychiatry Hospital.** COBRE.
136. Jingjie Hao, University of Nebraska-Lincoln. **Biomedical and Obesity Research Core (BORC).** COBRE.
137. John E McGeary, Brown University. **Bradley Hospital COBRE Center for Sleep and Circadian Rhythms in Child and Adolescent Mental Health: A Biomarker-Research Core (B-RC) in a Child Psychiatry Hospital.** COBRE.
138. Kimber McKay, Center for Population Health Research, University of Montana. **Mentorship That Moves the Needle: Evaluating Investigator Development in a COBRE Program.** COBRE.
139. Martha L. Peterson, University of Kentucky SuRE Resource Center. **University of Kentucky SuRE Resource Center.** Other.
140. Nathan L. Vanderford, University of Kentucky. **The University of Kentucky Center for Cancer Metabolism: Administrative Core.** COBRE.
141. Peter McDonald, University of Kansas. **Infectious Disease Assay Development & High Throughput Screening Laboratory at the University of Kansas.** COBRE.
142. Qi Zhang, University of New Hampshire. **The Data Science Core at University of New Hampshire.** COBRE, INBRE.
143. Samir P. Patel, Spinal Cord & Brain Injury Research Centre, Department of Physiology, University of Kentucky. **Linking Metabolism and Mitochondrial Function: The CNS-Metabolism COBRE Core for Integrated Metabolomics and Bioenergetics.** COBRE.
144. Sharon Elaine Sanders, The LINK at Arkansas Children's Research Institute. **Leveraging Implementation and eNgagement for Knowledge impact (The LINK): A Model for Community Engagement Core Sustainability.** COBRE, I-RED.
145. Sujoy Ghosh, Pennington Biomedical. **The Pennington Biomedical Bioinformatics and Computational Biology Core: Harnessing big data to drive breakthrough discoveries in nutrition and metabolism research.** COBRE.
146. Tom Palys, Geisel School Medicine Dartmouth. **The COBRE Center for Molecular Epidemiology Biorepository Core at Dartmouth: Comprehensive Support for Diverse and Large-scale Research.** COBRE.

## AI-Powered Surveillance, Data Science, and Machine Learning

147. Alex Gomez, University of Central Oklahoma. **Microwave-Based Scanner for Foodborne Pathogen Detection.** INBRE.
148. Aubrie Woodward, University of New Hampshire. **Voices, Boundaries, and Belonging: Ethical Considerations of In-Home Robot Use in Dementia Care.** INBRE.
149. Dana N. Joseph, Dartmouth Geisel School of Medicine. **Single-Molecule Profiling of Ganciclovir Incorporation Using Deep Learning.** COBRE.

150. Maricela Espinoza, Northeastern State University. **Automating Identification of Pericyte Cell Loss in Mouse Models.** INBRE.
151. Prateek Verma, University of Arkansas. **Machine Learning Frameworks for Automated Analysis of Biological Imaging and Behavior.** COBRE.
152. Shanshan Ding, University of Delaware. **Dimension Reduction and Hypergraph-assisted Deep Generative Modeling for Single Cell Genomic Data.** INBRE, CTR.
153. Sebastian Sereno, LSU Health Sciences Center Shreveport. **An Automated Interactive Reporting System for Accessible RNA-seq Data Analysis.** COBRE.

## Cancer

154. Andie Engleson, University of North Dakota. **Long Term-treatment with Carcinogens Present in Tobacco Smokes Affects the Expression of Basal Genes in the Immortalized Urothelial Tell Line, UROtsa.** INBRE.
155. Anjali S Poulo, University of Central Oklahoma. **Synthesis of Fe<sub>3</sub>O<sub>4</sub> Core-shell Metallic/Magnetic Nanoparticles up to ~50 nm as Dual-purpose Agents for Tumor Imaging and Cancer Treatment.** INBRE.
156. Caitlin Howe, Geisel School of Medicine at Dartmouth. **Feasibility of Implementing a Low-Cost Tool to Effectively Reduce Arsenic Exposure (FILTER Arsenic Study).** COBRE.
157. Christopher Bolden, Xavier University of Louisiana. **Evaluating SorLA as a Therapeutic Target in the Glioblastoma Tumor Microenvironment.** INBRE.
158. Danielyz Serrano-Pérez, Inter American University of Puerto Rico Bayamon Campus. **Novel Seleno-Modified Cembrane Diterpenes: From Tobacco Extraction to Anticancer Screening.** INBRE.
159. Elsie Horwath, University of North Dakota. **Long-term Combined Exposure to Multiple Carcinogens can Decrease the Expression of the Proto-oncogene CMYC and the Stem Cell Marker ALDH1A1 in Normal Urothelial Cells.** INBRE.
160. Emily Shore, Eastern Kentucky University. **Utilization of Cytotoxicity Assays as a Technique in Determining the IC50 of Docetaxel Treatment In Vitro.** INBRE.
161. Israel Bellinger, Winthrop University. **Does RYBP Sensitize Glioblastoma Cells to Temozolomide?** INBRE.
162. Joseph Biggane, University of Mary. **Ion Homeostasis Dysregulation Attenuates Human Cancer Cell Proliferation.** INBRE.
163. Katherine Hallman, University of North Dakota. **Expression of Basal Keratins in Normal Urothelial Cells Can be Altered by Exposure to Carcinogens Present in Tobacco Smoke.** INBRE.
164. Kiran Fida, Louisiana State University. **The Transcriptional Signature of KSHV Infection in the Guinea Pig Host.** COBRE.
165. Linel Demar, Drew University. **Synthesis of Stilbenes: Combretastatins.** Other.
166. Mansi Dere, University Of North Dakota. **Coordinated Intra-Family Regulation by Schlafen12 and Schlafen5 in Triple Negative Breast Cancer.** INBRE.

167. Michelle M. Martinez-Montemayor, Universidad Central del Caribe School of Medicine. **Ergosterol Peroxide Targets the E3 Ubiquitin Ligase UBR4 Inducing Proteostasis Collapse Cell Death in Triple-Negative Breast Cancer.** I-RED, INBRE, CTR.
168. Norah Kay, Winthrop University. **RING1- and YY1-Binding Protein Inhibits Glioblastoma Cell Invasion.** INBRE.
169. Prajesh Shrestha, Louisiana State University. **In vitro Evaluation of Grafted Peptidomimetic SFTI-G5 Across Various NSCLC Animal Models.** INBRE.
170. Sumit Lnu, Arkansas State University. **Efficient Synthesis of Thiazole-Attached Diazaborines as Potential Therapeutic Agents.** INBRE.
171. Thanh Ha Vy Nguyen, University of Arkansas for Medical Sciences. **Rnd3 Regulates Lung Cancer Cell Migration and Invasion via Integrin Alpha 5 Modulation and Lung Cancer Metastasis.** COBRE.
172. Wei Chen, Louisiana State University Shreveport. **A Shared PRC2/H3K27-GPCR Axis Underlies Aggressive Microenvironments in Breast, Ovarian, and Endometrial Cancer.** INBRE.
173. Madison Walker, Montana State University - Billings. **Proteomic and Metabolomic Characterization of Paruroctonus boreus Venom.** INBRE.

## Cardiovascular Biology, Cerebrovascular Biology, and Stroke

174. Ilka Pinz, MaineHealth Institute for Research. **Rab27a is an Important Mediator of Cardiovascular Health in Female Mice.** COBRE.
175. M. Rizwan Siddiqui, Murray State University. **PP2A-C Alleviates LPS-induced Endothelial Permeability and Inflammation by Attenuating Autophagy Signaling.** INBRE.

## Chronic Disease Mechanisms, Risk, and Prevention

176. Barbara Day Chief, Blackfeet Community College; Montana State University. **Traditional Ecological Knowledge.** INBRE.
177. Erika Lindsey, Department of Physiology and Cell Biology, University of Arkansas for Medical Sciences. **Enhancing Mitochondrial Resilience in Subchondral Bone Reduces Severity of Post-Traumatic Osteoarthritis.** COBRE.
178. Kathleen Downs, University of Delaware. **Effects of Acute Exercise on Gait in Knee Osteoarthritis.** INBRE.
179. Logan Tracy Crooks, Northeastern State University. **Retinal Capillary Cell Identification and Quantification Within Diabetic Mouse Models.** INBRE.
180. Ranjita Misra, West Virginia University & University of South Florida. **Understanding Patient-Centered Barriers and Facilitators to Patient-Provider Communication in Diabetic Retinopathy Care.** CTR.
181. Saige Rigby, Idaho State University. **Effects of Asbestos Dosage on Kidney IgG Deposition.** INBRE.
182. Adneliz Gisel Catala Catala, Universidad Ana G. Mendez- Recinto de Cupey. **Early Biomarkers of Metabolic Dysfunction-associated Steatotic Liver Disease in Juvenile Mice Exposed to Diesel Exhaust Particles.** INBRE.
183. Jadiel Pinto Ruiz, Universidad Ana G. Mendez-Gurabo. **Development of an Electrochemical Biosensor for the Detection of Serotonin in Sweat Using Metallic Alloys.** INBRE.

184. Rebecca J. McCreight, Washburn University. **Alternative Solvents to Dichloromethane for Ring Closing Metathesis of Azamacrocycles.** INBRE.

## Genetic and Gene-Environment Interactions

185. Hazel Frans, Fort Hays State University. **Impact of One Nucleotide on Organ Enumeration and Phyllotaxy in *Arabidopsis thaliana*.** INBRE.
186. Logan Eddy, West Liberty University. **Sex-Dependent Modulation of Induced-Thyrototoxicosis in Developing Chicken Embryos.** INBRE.
187. Soleil Rosenblum, University of Hawaii at Hilo. **Elevation and Ecosystem Transitions Shape Arthropod Assemblages with Implications for Public Health and Food System Resilience.** INBRE.

## Health Across the Lifespan and Lifestyle Interventions for Disease Prevention (Children's Health, Nutrition, Obesity, and Aging)

188. Annie W. Wang, University of Pikeville. **Edible Mushrooms as Emerging Biofactories for Oral Biopharmaceutical Production.** INBRE.
189. Beth Marschner, Minot State University. **AlterG Anti-Gravity Treadmill Versus Traditional Gait Training and Strengthening Effect in Lower Extremity Osteoarthritis.** INBRE.
190. Joanne Wilkinson, Warren Alpert School of Medicine, Brown University. **Trauma-informed Cancer Screening: Ideas for Human-centered Design.** COBRE.
191. Kathy Burge, University of Oklahoma Health Campus. **Succinate Receptor Signaling within the Developing Infant Intestine.** COBRE.
192. Lisa T. Jansen, Arkansas Children's Nutrition Center - University of Arkansas for Medical Sciences. **Glucoregulatory and Inflammatory Trajectories During an Antepartum Exercise Intervention in Pregnancies with Obesity: Secondary Analysis of a Randomized Controlled Trial.** COBRE.
193. Tess A. Carlson, University of Montana. **A Pilot Randomized Controlled Trial for Doula Intervention to Improve Perinatal Mental Health Outcomes.** COBRE.
194. Alex Kienow, North Idaho College. **Analysis of BOD5 and TSS Reduction in Lagoon-based Wastewater Treatment Systems.** INBRE.
195. Ka'Miya Dillon, Alcorn State University. **Long-term Impact of Indoxyl Sulfate Following Hypertensive Pregnancies.** INBRE.

## Microbiology and Infectious Disease

196. Allison Coffel, College of Eastern Idaho. **Examining Viability of Testing Single Small Size Arthropod Plant Pests for the Presence of *Wolbachia*.** INBRE.
197. Bailey Sebroski, West Liberty University. **Contribution of perR to the Resazomycin Susceptibility of *Neisseria gonorrhoeae*.** INBRE.
198. Chloe Harmon, Fort Hays State University. **Detection of Beta-Lactamase Antibiotic Resistance Genes in Rural Kansas Soils Across Agricultural Land-Use Types.** INBRE.
199. Foster Antwi Ofosuhene, Hampton University. **Biochemical and Biophysical Characterization of *Neisseria gonorrhoeae* Nucleoside Diphosphate Kinase (NDPK).** COBRE, INBRE, CTR.

200. Jasper Brown, West Liberty University. **Photoaffinity Labeling of Francisella tularensis LVS to Identify Potential Targets of Resazomycin Antibiotics.** INBRE.
201. Krista Permentier, Minot State University. **Green Synthesis of Shaped Silver Nanoparticles with Enhanced Antimicrobial Properties Using Sugars, Ultrasonic Energy, and LED Irradiation.** INBRE.
202. Madison P. M. Collins, Montana State University Billings. **SaeR/S-mediated Virulence in Staphylococcus aureus; The Multi-tool for Immune Escape.** INBRE.
203. Megan R. Gates, Boise State University. **Impact of a Natural Isoprenoid on an In-Vitro Model of Gut Microenvironment.** COBRE, INBRE.
204. Natalya Kaza, Lyon College. **Synthesis of Modified Rifamycins Using Click Chemistry to Combat Drug Resistance.** INBRE.
205. Pius Babawale, Louisiana State University, Baton Rouge. **Transcriptional Signatures of Airway Epithelial Damage During Pneumovirus Infections.** COBRE.
206. Seanna Latimer, Western Wyoming Community College. **High-resolution Genetic Analysis of Connectivity in a Membraneless Compartment.** INBRE.
207. Stuart Cantlay, West Liberty University. **Morphological and Physiological Differentiation of the Intracellular Pathogen, Francisella tularensis.** INBRE.
208. Vicki Jeffers, University of New Hampshire. **Divergent TATA Box-binding Proteins in the Apicomplexan Parasite Toxoplasma gondii.** COBRE.
209. Emma Guter, Montana State University. **Development and Characterization of a Human Gastric Assembloid System for Modeling Epithelial-Stromal Interactions and Helicobacter pylori Pathogenesis.** INBRE.
210. Mason M. Lemer, Minot State University. **Heavy Metal Concentrations in the Mosquitoes of Lake Darling, North Dakota.** INBRE.

## Neurodevelopment, Behavioral and Mental Health, and Related Comorbidities (Tobacco, Alcohol, Drug Misuse)

211. Asan F Abdulkareem, Dartmouth College. **Electrophysiological and Phosphoproteomics Profiling of Pten KO Mouse Granule Neurons Demonstrate a Divergent Role of Pten in regulating mTOR Complexes.** COBRE.
212. Gangqing (Michael) Hu, West Virginia University. **Evaluation of Artificial Intelligence-generated Vignettes Depicting Patient Chatbot Use in Psychiatric Contexts.** INBRE.
213. Kaitlyn Ahlers, Geisel School of Medicine at Dartmouth; Dartmouth Health. **Study Protocol for an Implementation Science-Guided Pilot Study of Trauma-Focused Cognitive Behavioral Therapy for Autistic Youth in Community Mental Health Settings.** COBRE.
214. Markelle Alexander, Minot State University. **Effects of Methamphetamine on Adrenal Cells.** INBRE.
215. Solomia Mayevsky, Saint Anselm College. **Neonatal Pain, Lidocaine Administration and Long-Term Behavioral and Sensory Outcomes in Rats.** INBRE.
216. Tyler B. Downnen, Northern Kentucky University. **Reward Seeking in Rats Previously Administered the Antipsychotic Drug, Risperidone.** INBRE.

## Neuroscience and Neurological Disorders

217. Audrey D. Wells, Boise State University. **Examining Molecular Changes in Ventral Pallidum Neurons Following Opioid Dependence.** COBRE.
218. Bibechana Khanal, Colby-Sawyer College. **Neuro Efficiency in the Prefrontal Cortex Following a Single Bout of Moderate Exercise in young adults.** INBRE.
219. Elizabeth Engler-Chiurazzi, Tulane University. **Defining Mechanisms Driving Central Nervous System Manifestations of Infection Experience in Brain Aging and Disease.** COBRE.
220. Evelyn Brittin, Montana State University. **Quantifying Co-release and Co-transmission in Dual Neurotransmitter Neurons.** INBRE.
221. Isabelle Wasseen, Department of Zoology and Physiology, University of Wyoming, Laramie, Wyoming. **iRhom2 Regulates Neuroinflammation-Driven Cognitive Dysfunction.** INBRE.
222. Kriya L Dunlap, University of Alaska Fairbanks. **Vitamin D and Healthy Aging: Establishing the Sled Dog Sentinel for the Circumpolar North.** COBRE.
223. Maria Azmerin, University of Wyoming. **Generation and Preliminary Behavioral Characterization of 5xFAD-iRhom2-Deficient Mice in Alzheimer's Disease.** COBRE.
224. Morgan Bridi, West Virginia University. **Investigating the Acute Role of Corticotrophin Releasing Factor in Sensory Cortex and Affective Sensory Circuitry.** COBRE.

## Structural and Cell Biology

225. Abigale Riggie, West Liberty University. **Localization of the Divisome Protein FtsL in Francisella tularensis LVS.** INBRE.
226. Ariel Alperstein, University of Delaware. **Towards Two-dimensional Infrared Microscopy of Amyloid-chaperone Interactions.** COBRE.
227. Carmen L. Cadilla, University of Puerto Rico Medical Sciences, Biochemistry Department. **The bHLH Transcription Factor TWIST2 and Its Truncated Mutant, Q119X, Share Structural Features.** INBRE.
228. Cohen P Cisneros, Creighton University. **In Vivo Studies of the Phosphorylation of Chromatin Assembly Factor-1.** INBRE.
229. Darianys T. Hernández-Rivera, University of Puerto Rico - Mayaguez. **rHemoglobin I from L. pectinata/Collagen Moiety for Hydrogen Sulfide Therapeutic Delivery.** INBRE.
230. Fatemeh Moradi, Department of Physiology and Cell Biology University of Arkansas for Medical Sciences (UAMS). **SLC22A17 Is the Molecular Gatekeeper of LCN2 Signaling in Bone.** COBRE.
231. Heather Callaway, Montana State University. **Structure and Function of the West Caucasian Bat Lyssavirus Glycoprotein.** INBRE.
232. Jae Yeon Hwang, University of Louisville. **An Integrated Pipeline for Detecting Actively Translated Circular RNAs from RNA-seq and Ribo-seq Data.** INBRE.
233. Juliane Strauss-Soukup, Creighton University. **Evolutionary Conservation of Ornithine Decarboxylase Antizyme Pseudoknot RNA Binding To Spermine.** INBRE.
234. Leo Napoleon, University of New Hampshire. **FGF Activates Wnt Signaling during Newt Lens Regeneration.** COBRE.
235. Mallory Johnson, University of Pikeville. **Six-element PCR Strategy for Gene Synthesis.** INBRE.

236. Matthew Girard, Northeastern State University. **POLE1 Meets MCM2: Defining a Critical Interaction During Human DNA Replication.** INBRE.
237. Olivia M Williams, University of New Hampshire. **A Single Cell Atlas of the Newt Iris During Lens Regeneration.** COBRE.
238. Rabeya Sharmin Lima, University of New Hampshire. **Degradation Mediated Fibronectin Remodeling from Cell Spheroids in 3D.** COBRE.
239. Shangping Wang, Clemson University. **Vitrification Enables Long-Term Preservation of a Viable Whole Meniscus and Supports Transplantation in a Large Animal Model.** COBRE.
240. Steven Nguyen, Creighton University. **Investigation of a Putative Riboswitch in *Crassostrea gigas* OAZ RNA.** INBRE.
241. Visanu, University of Arkansas for Medical Sciences. **Transcriptome-Guided Deconvolution of the Mesenchymal Cells via TENGU: A High-Fidelity Spatial Transcriptomics Pipeline.** COBRE.
242. Emily Myers, University of Idaho. **Actin Cytoskeleton Disruption Impairs Engineered Tendon Formation within a 3D Cell Self-assembly Model.** INBRE.
243. Judith Roe, University of Maine at Presque Isle. **Lumbriculus Variegatus Worm Regeneration: Histology and Gene Expression Patterns.** INBRE.
244. Mac Pholo Aguirre Huamani, Dartmouth College. **Understanding the Quality Control of *m7G*-modified tRNAs in Mammals.** COBRE.
245. P. Alex Swider, Emporia State University. **Hemp as a Hive Protector: HPLC Detection of Phytocannabinoids in Foraging Honey Bees.** INBRE.
246. Seann Mulcahy, Providence College. **Adventures in Atropisomerism with Undergraduates.** INBRE.

## Wednesday, June 17, 2026

### Administrative and Core Facility

247. Angel Mayor, Universidad Central del Caribe Alliance. **HPV Related Neoplasm Incidence and Mortality Risk Among People Living with HIV in Puerto Rico.** CTR.
248. Bara Altartouri, University of Nebraska-Lincoln. **Imaging Support from the UNL Microscopy Core: Confocal, SEM-EDX, and TEM.** COBRE.
249. Chamani Perera, University of Kansas. **The Computational Chemical Biology and Molecular Modeling Core.** COBRE.
250. Christopher Hemme, University of Rhode Island. **The RI-INBRE Molecular Informatics Core (MIC).** INBRE.
251. Craig Porter, Arkansas Children's Research Institute. **Arkansas Children's Research Institute's Rodent Metabolic and Behavioral Phenotyping Core.** COBRE.
252. Cyndy Buckhaults, SC INBRE Administrative Core, Department of Cell Biology & Anatomy, University of South Carolina School of Medicine Columbia. **Promoting Professional Development to Support SC INBRE Students, Staff and Faculty.** INBRE.
253. Diane Smith, Boise State University. **The Power of the Hub: Scaling Research Capacity by Centralizing NIH IDeA Program Administration.** COBRE, CTR.

254. Ernestine Jennings, The Miriam Hospital. **Community Collaborative Core, COBRE for Stress, Trauma, and Resilience (STAR).** COBRE.
255. Heather Driscoll, Norwich University. **Vermont Biomedical Research Network Data Science Core Facility.** INBRE.
256. Ilka Pinz, MaineHealth Institute for Research. **Small Animal Imaging by  $\mu$ CT and High-Resolution Ultrasound.** COBRE.
257. Jennifer Hackett, University of Kansas. **Next Generation Sequencing at KU Genome Sequencing Core.** COBRE.
258. Jeremiah R. Brown, Dartmouth College. **Building a Robust Implementation Science Network and In-Depth Training Opportunities: The COBRE Center for Implementation Science at Dartmouth.** COBRE.
259. Joan M Lakoski, West Virginia University; WVCTSI. **Pilot Outcomes of a Mentorship Development Certificate Program in Clinical and Translational Science.** CTR.
260. Julia Aebersold, University of Louisville. **KY INBRE Information Training and Education Core (ITEC).** INBRE.
261. Loyda B. Mendez, Universidad Ana G. Mendez, Carolina. **Building Biomedical Research Capacity in Puerto Rico Through Mentorship: The PR-INBRE Science and Technology Competency Enhancement Core.** INBRE.
262. Hong Zhu, University Of Mississippi Medical Center. **Neurophysiology Research Core: A Centralized Resource for Comprehensive Vestibular and Auditory Functional Testing and Rodent Models of Inner Ear Traumatic Injury and Ototoxicity.** COBRE.
263. Nazratun N. Monalisa, University of South Carolina Center for Applied Research and Evaluation. **The impact of the South Carolina INBRE program on developing biomedical research capacity among INBRE-funded faculty at undergraduate institutions.** INBRE.
264. Peter R McDonald, University of Kansas. **Flow Cytometry Core: A Chemical Biology of Infectious Disease COBRE Core Laboratory.** COBRE.
265. Renee Reijo Pera, McLaughlin Research Institute; Touro University. **Successes and Challenges in Building Research Capacity in a Unique Geographic and Academic Setting in Montana.** COBRE.
266. Sanam Sanei, University of New Hampshire. **Statistical and Data Science Services by the NH-INBRE/CIBBR Data Science Core at UNH.** INBRE.
267. Sharon M Feeney, Dartmouth Hitchcock Medical Center. **Building Capacity for Community Engagement Studios in Health Care Delivery Science in Rural New England.** COBRE.
268. Teresa Gunn, McLaughlin Research Institute; Weissman Hood Institute. **Accelerating Biomedical Discovery through the Gene Editing and Mouse Models Assessment (GEMMA) Core.** COBRE.
269. Xiaolu Zhang, Center for Applied Immunology and Pathological Processes, Department of Microbiology and Immunology, Louisiana State University Health Sciences Center-Shreveport. **The CAIPP Bioinformatics and Modeling Core: Service, Innovation, and Independent Discovery.** COBRE.

## AI-Powered Surveillance, Data Science, and Machine Learning

270. Alex Gomez, University of Central Oklahoma. **Microwave-Based Scanner for Pathogen Detection.** INBRE.
271. Brandon Weathers, University of South Carolina Aiken. **An Algorithm for the Constrained Longest Common Subsequence and Substring Problem for Multiple Strings.** INBRE.
272. Daniel Burns, University of Wyoming. **“Paging Dr. Chatbot”: A Cross-sectional Comparison of Emotional Content of Text Responses to Patient Health Queries between Physicians & Artificial Intelligence Chatbots.** INBRE.
273. Micheal J. Mello, Brown University Health. **The Post-Acute Trauma and Health (PATH) Dataset: Creating a Longitudinal Post-Injury Cohort to Characterize Healthcare Outcomes Following Traumatic Presentations to the Emergency Department (ED).** COBRE.
274. Qinghao Zhang, University of Oklahoma. **Evaluating the Efficacy of Mebendazole Repurposing for Ovarian Cancer Therapy using Optical Coherence Tomography.** COBRE.
275. Xiaohua D Zhang, University of Kentucky. **AI-Driven Classification of Impaired Awareness of Hypoglycemia via Multidimensional Physiological and Symptom Clustering.** COBRE.

## Cancer

276. Abigail Rose Smith, Clemson University. **Characterization of long non-coding RNA (lncRNA) isoforms for Early-Detection of Triple-Negative Breast Cancer (TNBC).** COBRE, INBRE.
277. Andrew Dixon, Northwest Nazarene University. **Pinpointing Rate Controlling Factors in Endometrial Cancer Cell Glycolysis.** INBRE.
278. Ashley Thompson, ECU. **Establishment of Clonogenic Assays as a Technique in Determining Phenotypic Effects of Drug Treatment In Vitro.** INBRE.
279. Bayley Scott, University of North Dakota. **Long-term Exposure to Chemicals Found in Tobacco Smoke Affects the Expression of Stemness Genes in Normal Immortalized Urothelial Cells.** INBRE.
280. Claudia Ospina-Millán, Inter American University of Puerto Rico Bayamon Campus. **Chemistry-Guided Exploration of Simalikalactone D: Structural Features and Synthetic Analog Design for STAT4 Pathway Modulation.** INBRE.
281. Ekhtear Hossain, Southern University and A&M College at Baton Rouge (SUBR). **Tire-Wear Pollutant 4-Aminodiphenylamine Promotes Prostate Cancer Cell Proliferation via PI3K-Independent AKT/mTOR Signaling.** INBRE.
282. Emily Cox, University of Arkansas Medical Sci - Little Rock, AR. **Identifying Drivers of Cell Invasion and Metastatic Progression in Triple Negative Breast Cancer.** COBRE.
283. Faith Magstadt, University of North Dakota. **Combined Treatment with Cigarette Carcinogens Alters the Expression of KRT6A and KRT19 and may Alter the Molecular Subtype of Bladder Cancer.** INBRE.
284. Ivette Agront Medina, Universidad Ana G. Méndez Universidad Ana G. Méndez Recinto CupeyCupey. **Comparison of Cell Death Activation in Advanced Prostate Cancer mediated by Novel Promising Agents ABQ-48 and BQ-108.** INBRE.

285. Kabita Kunwar, Louisiana State University. **Synergistic Effects of Intracellular Tyrosine Kinase Inhibitors and Extracellular Domain Targeting Peptidomimetics for Non-small Cell Lung Cancer.** Other.
286. Katie Rose Ryan, University of Arkansas for Medical Sciences. **Defining how Rnd3, a Novel Regulator of Breast Cancer Invasion, Affects the Metastatic Potential of Triple-negative Breast Cancer.** COBRE.
287. Laura Naldi, Louisiana State University Health Sciences Center, New Orleans. **Tolvaptan as a Potential Anticancer and Immunomodulatory Treatment for Triple-negative Breast Cancer Through Modulation of Sodium Homeostasis.** COBRE.
288. Luis Diego Lazo Loya, New Mexico State University. **Investigating Synthetic Cannabinoid Derivatives Toxicity and Gene Expression in Breast Cancer Lines.** INBRE.
289. Mayumi Jijiwa, University of Hawaii. **Spatial Transcriptomics Reveals Subgroup-specific and Histology-dependent Transcriptional Programs in Medulloblastoma.** INBRE.
290. Mike Nichols, Creighton University. **Prolonged Modification of Culture Conditions Induces a Shift in Mitochondrial Energetics of Squamous Cell Carcinoma Cells.** INBRE.
291. Noureen Siraj, University of Arkansas at Little Rock. **From Design to Biological Performance: Emerging Ionic Nanomedicines.** INBRE.
292. Shreya Pokharel, Louisiana State University. **Caveolin-1 Drives Stemness and Multidrug Resistance via FAK/c-Myc Signaling in TNBC.** COBRE.
293. Taylor Malloy, University of North Dakota. **Effect of Tobacco Specific Carcinogens on the Expression Levels of Keratin 6B and Keratin 6C in a Normal Urothelial Cell Line.** INBRE.
294. Tuoen Liu, West Virginia School of Osteopathic Medicine. **Keratin 18 Overexpression Inhibits Brain Metastasis of Triple-negative Breast Cancer In Vitro.** INBRE.
295. Yamixa Delgado, San Juan Bautista School of Medicine. **Natural Is Not Neutral: Oregano, Graviola, and Cinnamon Phyto-Nanostructures Show Multi-Target Antitumor Activity but Antagonistic Interactions with Main Chemotherapies in NSCLC.** COBRE, INBRE.

## **Cardiovascular Biology, Cerebrovascular Biology, and Stroke**

296. Denicia Stokley, University of Hawaii. **Cardiac Remodeling is Regulated by Chromatin Reader, PRKCBP1.** INBRE.
297. Jaclyn Megan Sions, University of Delaware. **Cardiovascular Health Concerns after Lower-Limb Amputation.** COBRE.
298. Shane Scholten, Dakota State University. **Ischemic Preconditioning is Effective at Improving Human Athletic Performance.** INBRE.

## **Chronic Disease Mechanisms, Risk, and Prevention**

299. Bernard Khomenko, The University of Montana. **From Medication Access to “Medication Home”: A Claims-Based Measure of Rural Pharmacy Affiliation.** COBRE.
300. Gary ZeRuth, Murray State University. **Characterization of a Zebrafish Model of Diabetes Mellitus and Polycystic Kidney Disease.** INBRE.

301. Kimberlee Mix, Loyola University New Orleans. **Protective Roles for Orphan Nuclear Receptor NR4A2 in Osteoarthritis.** INBRE.
302. Noha Shawky Elsayed, Department of Pharmacology and Toxicology, Mississippi Center of Excellence in Perinatal Research, Women's Health Research Center, University of Mississippi Medical Center. **Inflammatory Modulation of Angiotensin II Hypertension Programmed by Maternal Polycystic Ovary Syndrome.** COBRE.
303. Rebecca Pejak, Center for Population Health Research, University of Montana. **Cardiovascular Health Before and After an Indoor Air Quality Intervention (AIRWISE) in Older Adults.** COBRE.
304. Shreechandra Salukuti, Southern University and A&M College. **Cadmium Differentially Drives Profibrotic Signaling in Lung Cells.** INBRE.
305. Arpan Chowdhury, Louisiana State University. **Orthosteric Inhibition of CD2:CD58 nexus by Designed Peptidomimetics to Alleviate Rheumatoid Arthritis.** Other.
306. John Mossbacher, Montana State University Billings. **Water Quality and Biodiversity on the Yellowstone River.** INBRE.

## Genetic and Gene-Environment Interactions

307. Belinda Joyce Petri, University of Louisville. **Long-read Isoform Sequencing Reveals Aroclor1260-induced Isoform Expression in Mouse Liver.** INBRE.
308. Jeff Flores, Northern Kentucky University. **Analysis of Purine Biosynthesis and Salvage Pathway Genes and their Contributions to Genome Stability in *Saccharomyces cerevisiae*.** INBRE.
309. Lyle G Best, Turtle Mountain College. **The Relationship of CRP Variants to Body Mass Index.** INBRE.
310. Tyler David Armstrong, Department of Biological Sciences, Gregg Wadley College of Science and Health Professions Northeastern State University. **Towards the Development of the 'Partial Rescue' Strategy for FILS syndrome.** INBRE.

## Health Across the Lifespan and Lifestyle Interventions for Disease Prevention (Children's Health, Nutrition, Obesity, and Aging)

311. Ariana Costoso, New England College. **Self-Perceptions of Facial Expressivity in People with Parkinson's Disease.** INBRE.
312. Grayson Madsen, Dakota State University. **Using Momentum to Determine Loading Strategies for Loaded Jumps.** INBRE.
313. Joy Scaria, Oklahoma State University. **CoreCom: A Minimal Human-Derived Core Gut Microbiota that Stably Colonizes Germ-Free Mice and Promotes Mucosal Immune Maturation.** COBRE.
314. Laura Vene Maze LaTray, Blackfeet Community College. **Birthwork in Indigenous Communities.** INBRE.
315. Megan Ham, Keene State College. **Somatic Responses to Arsenic Exposure in Keystone Species *Daphnia*.** INBRE.
316. Yesenia Jimenez, Hawaii Pacific University. **Marker-Based vs Markerless Motion Capture Systems for Greater Accessibility: Evaluating Postural Sway During Single-Leg Stance.** INBRE.
317. Alexis E. Santana-Cruz, Universidad Ana G. Méndez, Carolina Campus. ***Drosophila melanogaster* Tracheal System Morphometry: Implications for Inhaled Dosimetry Predictions.** INBRE.

318. Paul Enlow, Nemours Children's Hospital, Delaware. **Peer Mentorship may Improve Psychosocial Outcomes among Adolescents with Type 1 Diabetes.** COBRE.

## **Microbiology and Infectious Disease**

319. Amelia Pinto, University of Kentucky. **Metabolic Regulation of West Nile Virus Replication and Neuroinvasive Disease Severity.** COBRE.
320. Brooke Horridge, Louisiana Biomedical Research Network. **SID-1, a Key Protein Involved in Systemic RNAi, Functions as a Pro-viral Factor in *C. elegans*.** INBRE.
321. Christopher W Lennon, Murray State University. **A Molecular Chaperone Can Promote Protein Splicing Through Precursor Stabilization.** INBRE.
322. Graysen Jones, Arkansas State University. **Inhibitory Effects of Novel Compounds on Biofilm Formation in *Streptococcus mutans*.** INBRE.
323. Juan Otero, Loyola University New Orleans. **Assessment of Putative rRNA Binding Sites in Erythromycin Resistance Methyltransferase *E.*** INBRE.
324. Kyle Vogtman, Saint Anselm College. **Adaptation of a High Throughput Assay to Quantify *C. difficile* Spore Germination.** INBRE.
325. Md Imran Hossain, Louisiana State University. **Regulation of Dynein-Dependent HSV-1 Virion Retrograde Transport by Viral and Cellular.** COBRE, INBRE.
326. Miranda J Oliver, College of Eastern Idaho. **Investigating Pet Store Arthropod Populations as a Source of Wolbachia Bacteria.** INBRE.
327. Nishanthini Pirashanna, Department of Pathobiological Sciences, School of Veterinary Medicine, Louisiana State University. **Alpha-ketoglutarate Restriction Augments Macrophage Host Defenses by Generating Nitric Oxide.** COBRE.
328. Robyn Kent, University of Oklahoma Health Science. **Elucidating Parasite Specific Requirements for Chronic *T. gondii* Infection in Disparate Tissues.** COBRE.
329. Simone Kaiamalia Marcelo Gonzalez, Boise State University. **Safer SuFEx-Derived Small-Molecule Inhibitors of Streptococcal SpeB.** INBRE.
330. Teagan Potter, Montana State University Billings. **Regulation of Autophagy Protein Expression in Neutrophils during *S. aureus* Interaction.** INBRE.
331. Zannatul Haque Tumpa, Department of Pathobiological Sciences, Louisiana State University School of Veterinary Medicine. **Pulmonary Innate Immune Responses Restrict *Staphylococcus aureus* Small Colony Variants-associated pneumonia.** COBRE.
332. Hanna Justice, University of Pikeville. **A Sensitive Assay for Quantifying T Cell Receptor Excision Circles in Humans.** INBRE.

## **Neurodevelopment, Behavioral and Mental Health, and Related Comorbidities (Tobacco, Alcohol, Drug Misuse)**

333. Alejandro Ramirez, Western Kentucky University. **The Impact of Expectancies on Intoxicating Hemp-Derived Product Use and Driving.** INBRE.
334. Cutter Barrus, University of Wyoming. ***Xenopus* Tadpoles Display Distinct and Enduring Visual Preferences.** INBRE.

335. Hanna E Forrest, Western Kentucky University. **Effectiveness of a Modified Digital Brief Intervention on Alcohol-Related Outcomes for Heavy Drinking Emerging Adults with Interpersonal Trauma.** INBRE.
336. Mackenzie Feltner, Northern Kentucky University. **The Effect of Offspring Exercise on Learning, Memory and Motor Function in Two Genotypes of Mice Exposed to Benzo[a]pyrene During Early Brain Development.** INBRE.
337. Nathan D. Meredith, Western Kentucky University. **Evaluation of an Interactive Mobile Phone-Based Brief Intervention to Reduce Driving Under the Influence of Cannabis among Emerging Adults: A Randomized Controlled Trial.** INBRE.
338. Sophie Jerome, Western Kentucky University. **PTSD, Depression, and Anxiety Outcomes in a Digital Brief Intervention for Substance-Using Interpersonal Trauma Survivors.** INBRE.
339. Riley Crews, University of Montana. **Teaching with Confidence: Association Between Confidence and Student Outcomes.** INBRE.

## Neuroscience and Neurological Disorders

340. Austin Keeler, University of Delaware. **Spatial Proteomic Atlas of the Peripheral Somatosensory Ganglia During Chronic Pain.** COBRE.
341. Caroline Geisler, University of Kentucky. **Astrocyte Lipometabolic Regulation by Acyl-CoA Binding Protein as a Neurobiological Target Underlying Central Metabolic Dysfunction in Alzheimer's Disease.** COBRE.
342. Elizabeth G. Lind, Creighton University. **The Gatekeeper of Choroid Plexus Integrity.** INBRE.
343. Fani Del Toro, University of Delaware. **Organic Electrochemical Transistors for Selective Detection of Amyloid- $\beta$ .** COBRE.
344. Jaime Heckler, Western Kentucky University. **A Chronometric and Mobile EEG Examination of Directionally Informed Cueing Effects on Plantar Flexion Response Conflict.** INBRE.
345. Li Li, University of Wyoming. **Serotonin (5-HT) Receptor Signaling in Gut-Brain Communication.** COBRE.
346. Mikael Klingeborn, Weissman Hood Institute at Touro University, McLaughlin Research Institute. **Desmosome and Hemidesmosome Overexpression in Retinal Pigmented Epithelium Protects Against Oxidative Stress-induced Epithelial-Mesenchymal Transition.** COBRE.
347. Natalie Sofaly, Boise State University. **Bovine Colostrum Supplementation Modulates Intestinal Tract Functionality in a Murine Multiple Sclerosis Model.** COBRE, INBRE.
348. Vandana Sharma, Department of Zoology and Physiology, University of Wyoming. **Molecular Characterization of the Progressive Landscape of Depression.** COBRE, INBRE.

## Structural and Cell Biology

349. Alexey L. Arkov, Murray State University. **Strategies to Assemble Different Membraneless RNA-protein Organelles: Lessons from Germ Cells.** INBRE.
350. Benjamin Rudo, University of Hawaii at Hilo. **Convenient Synthesis of Diazirines as Photoaffinity Labels.** INBRE.

351. Christian Wright, University of Oklahoma Health Sciences Center, Oklahoma Medical Research Foundation. **Detecting Genomic Instability Using Third Generation Sequencing.** COBRE.
352. Daisy Grove, Northern Kentucky University. **Investigating Distinct Roles of the Yeast AdoMet Synthetases Sam1 and Sam2.** INBRE.
353. David McDaniel, North Idaho College and University of Idaho. **Structural Comparison of the K62 Killer Toxin and its Orthologs.** INBRE.
354. Gabrielle R. Bresson-Tan, Montana State University (MSU). **Structure-guided Design of a Broadly Neutralizing Antibody Against Rabies and West Caucasian Bat Lyssavirus.** INBRE.
355. Intawat Nookaew, University of Arkansas for Medical Sciences. **CRISPR-based Lineage Tracing and Single Cell Transcriptional Profiles Analysis Uncover Osteo-CAR Cells are Osteoblast Progenitors in Mice.** COBRE.
356. John Erik Mylroie, Millsaps College. **Zebrafish, a Powerful Tool for Studying Organism by Environment Interactions at Undergraduate Institutions.** INBRE.
357. Kirk L West, University of Arkansas for Medical Sciences. **Biochemical Characterization of Tausled-like Kinase Interactions with DNA Sliding Clamps.** COBRE.
358. Lynda Clayton, University of Idaho. **Determination of the Mechanism Behind Species Specificity of Yeast and Human Hsp90 and Aha1.** INBRE.
359. Maria Moyet, University of New England College of Osteopathic Medicine. **Exploring NAD+ Metabolic Pathways as Therapeutic Targets in Tuberos Sclerosis Complex and Lymphangiomyomatosis.** COBRE.
360. Md Wasi Ul Kabir, University of New Orleans. **CEG-IDP: Disorder-Informed Energy Reweighting for Conformational Ensemble Generation of Intrinsically Disordered Proteins.** Other.
361. Olivia M. Rocchio, West Liberty University. **Investigating Myogenic Regulation of Craniofacial Morphology in a Murine Model of Craniosynostosis.** INBRE.
362. Samira Aditya Kunapareddy, University of Mississippi Medical Center. **Radio-Frequency Debonding of Zirconia Using a Novel Primer.** INBRE.
363. Shian Liu, West Virginia University. **Activation Mechanisms of Single-Pass Transmembrane Guanylate Cyclase-A.** COBRE.
364. Taedyn Jacobsen, Idaho State University. **Enhanced Encapsulin Cargo Loading Efficiency via Rational Targeting Peptide Modifications.** INBRE.
365. Zachary Boyce Joy, Department of Biochemistry and Cell Biology, Geisel School of Medicine at Dartmouth. **PATL2 RNA Binding Dynamics in Mouse Oocytes.** INBRE.
366. Faisal Mahmud, University Of Central Oklahoma. **Properties of Non-woven Fabrics for Bone Scaffold Using Low-cost Spectroscopy.** INBRE.
367. Kevin Wang, University of Pikeville. **Low-Cost Plant Molecular Farming for Biomedical Workforce Development in IDEa States.** INBRE.
368. Michael Henderson, Bowdoin College. **Dissecting Membrane-mediated Interactions of srGAP Bin/Amphiphysin/Rvs (BAR) Proteins in Neuronal Filopodia Formation.** INBRE.
369. Samantha Bursaw, University of Nebraska - Kearney. **Elution and Concentration S. cerevisiae DNA in Large Inserts Using 3D-printed Devices.** INBRE.

# National IDeA Symposium of Biomedical Research Excellence

June 14-17, 2026 | Bethesda North Marriott Hotel  
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To our **student and trainee participants** – Your energy and curiosity are the future of biomedical research. Thank you for sharing your work with us. We are deeply honored to play a small role in your academic journey.

To our **conference sponsors** – Your financial support and partnership make NISBRE possible and ensure that faculty, administrators, and trainees from across the IDeA network can gather to share knowledge, forge collaborations, and advance the science that furthers the mission of the IDeA program. We are so grateful for your contributions.

To our **abstract reviewers and selection committee members** – We are deeply appreciative of your thoughtful attention to the many outstanding submissions received this year. Your careful evaluation ensures NISBRE can showcase the impactful work coming from IDeA states.

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Finally, to **YOU**, our volunteers and attendees – You willingly contributed your time, talent, and enthusiasm to this event. This conference belongs to you! NISBRE endures because of the IDeA community's unwavering belief in the power of collaboration to advance research and improve lives.

We are truly grateful to work with you, and we look forward to seeing you at NISBRE2028!

-The NISBRE2026 Planning Committee