



NISBRE 2024

Poster Session Pamphlet

(Listed by Poster Number)

9th National IDeA Symposium of Biomedical Research Excellence

NISBRE2024 POSTER SESSION PAMPHLET

Welcome to the NISBRE2024 Poster Session(s)! Posters are listed by assigned poster number. Please note that odd numbered posters will be presented on Monday, June 17, 2024 from 5:15 - 6:30PM ET and even numbered posters will be presented on Tuesday, June 18, 2024 from 5:15 - 6:30PM ET. All posters will be displayed in the International Ballroom. Please remember to vote for your favorite poster(s) in the NISBRE People's Choice Poster Awards. Numerous award categories are available.

1. Maryam Khodaverdi, West Virginia Clinical and Translational Science Institute. **Bot Or Not: Machine Learning Approaches for Identifying Artificial Intelligence Bots in Online Survey Research.** Co-Authors: Kacie Kidd, Brad Price. Co-Authors Institutional Affiliations: West Virginia University. CTR
2. Lorraine S. Evangelista, University of Nevada, Las Vegas. **Promoting community engagement and capacity-building to address health disparities in diverse communities in the Mountain West Region: Experiences of the Community Engagement and Outreach Team.** Co-Authors: Reimund Serafica, Francisco S. Sy, Joseph Guerrero Lopez, Rebecca Palacios, Tony Ward, Jeffery Chaichana Peterson, Judith Owens-Manley. Co-Authors Institutional Affiliations: University of Nevada Las Vegas, Public Health Sciences at NMSU, University of Montana, University of Alaska Anchorage. CTR
3. Laura Enid Marrero-Jimenez, University of Puerto Rico at Cayey. **Role of diet modification on Chronic Ethanol Tolerance Development.** Co-Authors: Priscilla M. Gutierrez Ortiz, Enrique Rodriguez Borrero. Co-Authors Institutional Affiliations: University of Puerto Rico at Cayey. INBRE
4. Jacob K. Clerc, Presbyterian College. **Investigating the Unjamming Transition for the Development of a Soft-Robotic Gripper.** Co-Authors: Ashton J. Shannon, Eli T. Owens. Co-Authors Institutional Affiliations: Presbyterian College. INBRE
5. Cody Casey, Coastal Carolina University. **Two new candidate alleles for TANGO2 in Drosophila melanogaster model.** Co-Authors: Jay DeLoriea, Paria Asadi, Djenann Saint-Dic, Michael Sacher, Chiara Gamberi. Co-Authors Institutional Affiliations: Coastal Carolina University, Concordia University. INBRE
6. Reece A. Garcia, Southeastern Oklahoma State University. **Protein and natural product characterization of redbud trees.** Co-Authors: Anna J. Ritter, Kaisey L. Jones, Asuncion Eleazar Rubio, Cooper McKinney, Nancy L. Paiva. Co-Authors Institutional Affiliations: Not listed. INBRE
7. Brigitte M Romero Carpio, University of Delaware. **Proteasome inhibitors dysregulate circRNA expression in human iPSC-derived cardiomyocytes.** Co-Authors: Grace Davis, Theresa Edery, Vijay Parashar, Chi Keung Lam, Mona Batish. Co-Authors Institutional Affiliations: University of Delaware COBRE
8. Derald E. Wentzien, Delaware State University. **The Creation of a Dashboard to Track the Accomplishments of the Research Capacity Core at Delaware State University.** Co-Authors: None. INBRE
9. Marla Berry, University of Hawaii at Manoa. **Consortium of Research Advancement Facilities and Training (CRAFT) at the University of Hawaii Precision Nutrition COBRE.** Co-Authors: Alexander Culley, Youping Deng, Alika Maunakea, Elaine Mirkin, Rachel Novotny, Lucia Seale, Joanne Yew. Co-Authors Institutional Affiliations: University of Hawaii. COBRE
10. Ryan Michael Taitano, University of Delaware. **Experimental Approaches to Quantify the Influence of Pathological Hemodynamics On Astrocyte Dysfunction.** Co-Authors: John Slater, Sam Freeman, Rishabh Singh. Co-Authors Institutional Affiliations: Not listed. COBRE
11. Ricky Wiggins, Jr., Louisiana State University Health Sciences Center-Shreveport. **Advancing High-Capacity Flow Cytometry: Development of Antibody Tracking and Sharing Software for Efficient Cost Sharing and Collaboration.** Co-Authors: Sushma Bharrhan, Jian Wang, Marcin Sypniewski, Rona S. Scott, Matthew D. Woolard, Andrew D. Yurochko. Co-Authors Institutional Affiliations: Not listed. COBRE
12. Jesse J. Halverson, Mayville State University. **Ecology and Blood Feeding Preferences of Mosquitoes in Traill Co., ND.** Co-Authors: Madisen Knudsvig, Gavin Bohlman, Taylor Painter, Keylim Rivera, Joseph Mehus. Co-Authors Institutional Affiliations: Mayville State University. INBRE

13. Keshab Subedi, CHRStianacare Health System. **Risk Factors and Implications of Leaving Without Treatment from the Emergency Department.** Co-Authors: Keshab Subedi. Co-Authors Institutional Affiliations: Not Listed. CTR
14. DaShan Osborne, Delaware State University. **Effects of aging on cholinergic synaptic release in the central nervous system DaShan Osborne and Hakeem Lawal Neuroscience Program, Department of Biological Sciences, Delaware State University Dover, DE.** Co-Authors: Hakeem Lawal. Co-Authors Institutional Affiliations: Delaware State University. INBRE
15. Timothy E. Burdick, Dartmouth Health & Geisel School of Medicine. **Adding geocoded social determinants of health to the EHR and data warehouse.** Co-Authors: Jennifer A. Snide, Mathan M. Thillaiyapillai, John F. Duggan, Dustin S. Ray. Co-Authors Institutional Affiliations: Dartmouth Health. COBRE
16. Erica Ashley Farris, University of Wyoming. **Myeloid Iron TfR1 Uptake Effect on Infection Behavior and Dissemination.** Co-Authors: Tathagato Roy, Jason Gigly. Co-Authors Institutional Affiliations: Not Listed. INBRE
17. Kurt Wulser, University of Nebraska-Lincoln. **Nebraska Center for Integrated Biomolecular Communication (NCIBC) - Systems Biology Core Facility (SBC).** Co-Authors: Adam Caprez, Darcy Cochran, Jared Hass, Micah Jeppesen, Martha Morton, Robert Powers, Jean-Jack Riethoven, Kurt Wulser. Co-Authors Institutional Affiliations: University of Nebraska-Lincoln. COBRE
18. Jefxander Carrasquillo-Villafañe, Ana G. Mendez University, Carolina Campus. **Perspective of high school students, teachers, and parents on academic performance during the COVID-19 school lockdown.** Co-Authors: Nilda G. Medina Santiago. Co-Authors Institutional Affiliations: Ana G. Mendez University. INBRE
19. Irina Kirpich, University of Louisville. **Bioactive lipid mediators in alcohol-associated liver disease: potential therapeutic targets and biomarkers of disease severity.** Co-Authors: Dennis Warner, Craig McClain. Co-Authors Institutional Affiliations: University of Louisville. COBRE
20. Katherine Muksuris, West Virginia University. **Noninvasive Neuromodulation for Parkinson's Disease: Insights from animal models.** Co-Authors: Mariya Cherkasova. Co-Authors Institutional Affiliations: West Virginia University.
21. Christopher Lee, University of South Carolina. **Reducing diagnostic barriers of Trypanosoma cruzi using convolutional neural network applied image classification in blood smears captured through mobile phone images.** Co-Authors: Homayoun Valafar. Co-Authors Institutional Affiliations: University of South Carolina. INBRE
22. Peter R. McDonald, University of Kansas. **Flow Cytometry Core: A Chemical Biology of Infectious Disease COBRE Core Laboratory.** Co-Authors: Robin C. Orozco, P. Scott Hefty. Co-Authors Institutional Affiliations: University of Kansas. COBRE
23. Madison Olson, University of Wyoming at Casper. **Investigating Cardiac Function Through the Study of Myocardial Citrullination Patterns in Mice: Effects of Age and Gender on Cardiac Peptidyl Arginine Deiminase/PAD Expression.** Co-Authors: Chavely Cruz Cardenas, Mason Agor, Trevor Hible, Abby Boatman, Brian Cherrington, Danielle Bruns, Florence Teule-Finley. Co-Authors Institutional Affiliations: University of Wyoming at Casper, University of Wyoming. INBRE
24. Taren Swindle, Arkansas Children's Research Institute. **Center for Childhood Obesity Prevention-Community Engagement Core Services.** Co-Authors: Anna Huff Davis, Sharon Sanders. Co-Authors Institutional Affiliations: Not Listed. COBRE
25. Gian DePamphilis, Butler Hospital. **Puff, Puff, or Pass? The use of Tetrahydrocannabinol (THC) During Repetitive Transcranial Magnetic Stimulation (rTMS) for Treatment Resistant Depression (TRD).** Co-Authors: Eric Tirrell, E. Frances Kronenberg, Noah Vaughan, Lauren Hindley, Megan Vigne, Joshua Brown, Andrew M. Fukuda, Linda L. Carpenter. Co-Authors Institutional Affiliations: Butler Hospital, McLean Hospital. COBRE
26. Maycie Schultz, University of Wyoming. **Investigating Cellular Gene Expression, Function, and Diversity Differences in 5xFAD Mice Using Single-Cell RNAseq (scRNAseq) Methodology.** Co-

- Authors: Derek Walton , Madeline Bershinsky, Albert Allotey, Jared Bushman, Qian-Quan Sun. Co-Authors Institutional Affiliations: Not Listed. COBRE
27. Ariana Negroni-Santiago, University of Puerto Rico. **Insights into Stomach Ulcers Treatment using H₂S, Hemoglobin I, and Collagen Moiety.** Co-Authors: Juryanis Velez-Rodriguez, Nicolas I Bauza-Reyes, Cacimar A. Ramos-Alvarez, Juan Lopez-Garriga. Co-Authors Institutional Affiliations: Not Listed. INBRE
 28. Elizabeth Reisher, University of Nebraska Medical Center. **Untangling Rurality in Health Research: A Review of Definitions and Their Use in Electronic Health Record Research.** Co-Authors: Jerrod Anzalone. Co-Authors Institutional Affiliations: University of Nebraska Medical Center. CTR
 29. Aditya Khanna, Brown University School of Public Health. **Integrated Network Analysis of RADx-UP Data to Increase COVID-19 Testing and Vaccination Among Persons Involved with Criminal Legal Systems (PCLS).** Co-Authors: Rosemarie A Martin. Co-Authors Institutional Affiliations: Not Listed. COBRE
 30. Caleb Esteban, Ponce Health Sciences University/Ponce Research Institute. **Metabolic Syndrome Risk among Hispanic Sexual Minorities in Puerto Rico.** Co-Authors: Alixida Ramos-Pibernus, Idhaliz Flores, Eddiel Hernandez-Lopez. Co-Authors Institutional Affiliations: Ponce Health Sciences University. CTR
 31. Michelle M Martinez Montemayor, Universidad Central del Caribe-School of Medicine. **Insights into the anti-metastasis effects of ergosterol peroxide in triple negative breast cancer.** Co-Authors: Adriana Aponte Ramos. Co-Authors Institutional Affiliations: Universidad Interamericana - Bayamon Campus. CTR
 32. Taylor Kalgren, Western Kentucky University. **The relationship between cognitive factors and exposure to suicide on adolescent suicide ideation.** Co-Authors: Marlee Gieselman, Lauren Morris, Amy M. Brausch. Co-Authors Institutional Affiliations: Not Listed. INBRE
 33. Ranjita Misra, West Virginia University. **Perceptions of COVID-19 Perceived Threat, Vaccine Uptake and Health Information Source among Rural Adults with Chronic Diseases.** Co-Authors: Sweta Mahato. Co-Authors Institutional Affiliations: West Virginia University. CTR
 34. Victoria Murphey, Clemson University. **Assessing an actin binding protein, thymosin beta-4, as a novel treatment for Acanthamoeba keratitis.** Co-Authors: Luis Sanchez Ferrer, Anissa Waller Del Valle, Abigail Goff, Calvin Paulsen, Timothy Brinson. Co-Authors Institutional Affiliations: Clemson University. COBRE
 35. Margaret C Walsh, The Miriam Hospital. **Technology, Assessment, Data, and Analysis Core.** Co-Authors: Chris Breault, Shira Dunsiger, Sara Vargas, Nicole Nugent, Beth Bock. Co-Authors Institutional Affiliations: The Miriam Hospital, Brown University. COBRE
 36. Alia Michaelis, Wichita State University. **Characterization of Cardiomyopathic Point Mutations in the Ig3 Domain of Myopalladin.** Co-Authors: Asha Rankoth Arachnige, Julie Tran. Co-Authors Institutional Affiliations: Not Listed. INBRE
 37. Jean Christopher Chamcheu, Southern University and A&M College Baton Rouge, and Louisiana State University School of Veterinary Medicine. **Myeloid Cell-Specific Deletion of mTOR Suppresses Psoriasiform Disease in Imiquimod-Induced Skin Inflammation in Mice.** Co-Authors: JT Folahan, ST Boateng, T Roy, S Banang-Mbeumi, JT Folahan, RC N. Chamcheu, KG Kousoulas, AL Walker, S Patial, JC Chamcheu. Co-Authors Institutional Affiliations: Southern University and A&M College Baton Rouge, Louisiana State University. INBRE
 38. Juli Petereit, University of Nevada, Reno. **Fostering Institutional Data Science Awareness and Capacity: A Collaborative Approach at the University of Nevada, Reno (UNR).** Co-Authors: Nicole Falk-Smith, Josh Baker. Co-Authors Institutional Affiliations: University of Nevada Reno. INBRE
 39. Kaydyn M. Carr-Turner, Millsaps College. **Photochemical Key Steps in the Synthesis of Isoindolone Piperidines As Kinase Inhibitors: Asymmetric Photochemical Cyclization.** Co-Authors: Zoe O. Elder, Tynai J. Bridges, Caroline A. McKinney, Matthew G. Donahue, Wolfgang H.

- Kramer. Co-Authors Institutional Affiliations: Millsaps College, The University of Southern Mississippi. INBRE
40. Kendall Moyte, University of Wyoming. **Peptidylarginine Deiminase (PAD) Expression in the Female Hippocampus During the Estrous Cycle.** Co-Authors: Pooja Gupta, William D. Todd, Brian D. Cherrington. Co-Authors Institutional Affiliations: Not Listed. INBRE
 41. Elizabeth Woods, University of Vermont Larner College of Medicine. **Identifying Facilitators & Barriers to Cancer Clinical Trial Enrollment in Rural Vermont.** Co-Authors: Anika Advant, Jan Carney. Co-Authors Institutional Affiliations: University of Vermont Larner College of Medicine. CTR
 42. Emma Throneburg, University of Louisville. **Beyond Numbers: A Qualitative and Quantitative Investigation of Student Outcomes in a Course-based Undergraduate Research Experience (CURE) for Introductory Biology Students.** Co-Authors: Natalie Christian, Mikus Abolins-Abols, Jeffery Masters, Connor Morozumi, Rachel M. Pigg. Co-Authors Institutional Affiliations: Not Listed. INBRE
 43. Claudia Gonzalez, Clemson University. **Investigating Initiation of Encystation in The Intestinal Parasite *Entamoeba histolytica*.** Co-Authors: Cheryl Ingram-Smith. Co-Authors Institutional Affiliations: Not Listed. COBRE
 44. Gerianne Olivieri-Henry, University of Puerto Rico - Medical Sciences Campus. **Characterization of the gut microbiome of Puerto Ricans with Alzheimer's disease based on their Apolipoprotein E genotype.** Co-Authors: Vanessa Sepulveda-Rivera, Carlos Herrero-Rivera, Cecilia Soler, Hiram Morales-Gonzalez, Javier Ruiz, Michel Santiago, Ana C. Sala, Filipa Godoy-Vitorino. Co-Authors Institutional Affiliations: University of Puerto Rico - Medical Sciences Campus. INBRE
 45. Jennifer Hackett, University of Kansas. **Next Generation Sequencing at KU Genome Sequencing Core.** Co-Authors: None. COBRE
 46. Sai Deepika Reddy Yaram, West Virginia University. **Biophysical characterization of HL-60 infected with *Anaplasma spp.*** Co-Authors: Soumya K Srivastava. Co-Authors Institutional Affiliations: West Virginia University.
 47. Tobechukwu M. Aghadinuno, Southern University and A&M College Baton Rouge. **Garcinia Kola Nuts extracts and its bioactive flavonoid Kolaviron-enriched fraction induced skin cancer cell death involving autophagy.** Co-Authors: Tobechukwu M. Aghadinuno, Joy T Folahan, Ekhtear Hossain, Olufunke E. Olorundare, Konstantin Kousoulas, Francis-Afred Attah, Jean Christopher Chamcheu. Co-Authors Institutional Affiliations: Louisiana State University, Southern University and A & M College, University of Ilorin. INBRE
 48. Vanessa Sepulveda, University of Puerto Rico. **Clostridium innocuum associates with cognitive impairment in the gut microbiota of Hispanics living in Puerto Rico.** Co-Authors: Gerianne Olivieri-Henry, Carlos Herrero-Rivera, Cecilia Soler Llompart, Hiram Morales-Gonzalez, Javier Ruiz, Michel Santiago, Ana C. Sala, Filipa Godoy-Vitorino. Co-Authors Institutional Affiliations: University of Puerto Rico Medical Sciences Campus. INBRE
 49. David E. Warren, University of Nebraska Medical Center. **Measuring AD-vulnerable brain systems and cognitive abilities in healthy development: cross-sectional findings from the PRANK study.** Co-Authors: None. COBRE
 50. Lucas Hert, Montana State University-Billings. **Identification of Lipid Biomarkers of Alzheimer's Disease Using a Novel Enzymatic Approach.** Co-Authors: Daniel Willems. Co-Authors Institutional Affiliations: Not Listed. INBRE
 51. Kristine M Bragg Zizza, University of Nevada Las Vegas. **Building and Sustaining COBRE Scientific Research Cores.** Co-Authors: Linda J. Larson-Prior, Jonathan Hilpert, Judith Weber, Hannah Williams, Evan Falkenthal. Co-Authors Institutional Affiliations: Not Listed. COBRE
 52. Owen Growney, Black Hills State University. **Investigation of the SpoV Peptide and Its Effects on *S. pyogenes* Biofilms.** Co-Authors: Michael Chaussee, Andrea Herrera. Co-Authors Institutional Affiliations: University of South Dakota. INBRE

53. Brisa E. Rodriguez Alcantar, University of Nevada, Las Vegas. **Associations Between Parent's Physical Activity and Children's Weekly Physical Activity in a Hispanic Sample.** Co-Authors: Tim Grigsby, Liliana Davalos, Marissa Martinez, Christopher Johansen. Co-Authors Institutional Affiliations: University of Nevada, Las Vegas. INBRE
54. Ishika Sharma, University of Delaware. **Selective Whole Genome Amplification Shows Potential for Sequencing Avian Malaria Pathogen Genomes.** Co-Authors: Vincenzo Ellis. Co-Authors Institutional Affiliations: University of Delaware. INBRE
55. Kara Powder, Clemson University. **Sex as a source of shape variability in the facial skeleton.** Co-Authors: Brandon T. Sanders, Karisa Bruce, A. Allyson Brandon. Co-Authors Institutional Affiliations: South Carolina Translational Research Improving Musculoskeletal Health (SC TRIMH) COBRE
56. Sara Vargas, The Miriam Hospital. **Assessing the integration of comprehensive sexual health histories at clinical practices in the Providence metropolitan area.** Co-Authors: Leslie Ramirez. Co-Authors Institutional Affiliations: The Miriam Hospital. COBRE
57. Gopi Kolluru, LSU Health-Shreveport. **Cystathionine gamma lyase and Hydrogen sulfide signaling in aging vascular blood flow and cognitive function.** Co-Authors: Bo J. Wood, Ian Hill, Sibile Pardue, John Glawe, Xinggui Shen, Kevin S. Murnane, Chris Kevil. Co-Authors Institutional Affiliations: LSU Health Shreveport. COBRE
58. Jared Hamm, Minot State University. **Assessing Possible Influence of Anthropogenically-Derived Effluents in Lake Darling, North-Central North Dakota.** Co-Authors: Nikita Neyshtadt, Lehi Karadia, Achille Tenekeu, Joseph Collette. Co-Authors Institutional Affiliations: Minot State University. INBRE
59. Tyler Paul Hill, West Liberty University. **Genetic and Protein Expression Comparison of Tissues of Differing Embryonic Origin.** Co-Authors: Holly Racine, Lara Fetty, Bailee McNamara. Co-Authors Institutional Affiliations: West Liberty University. INBRE
60. David Johnson, University of Kansas. **Computational Chemical Biology Core: A Chemical Biology of Infectious Disease COBRE Core Laboratory.** Co-Authors: None. COBRE
61. Emily Ekstrum, Creighton University. **Structural and Langevin-Based Dynamic Studies of the Interaction Between Two Proteins Involved in Gene-Silencing.** Co-Authors: Evan Veltri, Molly Dolan, Lynne Dieckman. Co-Authors Institutional Affiliations: Not Listed. INBRE
62. Morgan Bridi, West Virginia University. **Measuring and manipulating activity in stress-responsive hypothalamic nuclei to improve post-stroke outcomes.** Co-Authors: Laurel Stone, Riley Coulter. Co-Authors Institutional Affiliations: West Virginia University. COBRE
63. Matthew Woolard, Louisiana State University Health Sciences Center-Shreveport. **Creating a Cost-Efficient Immunophenotyping Core Supported by COBRE to Streamline Technology Adoption and Training.** Co-Authors: Sushma Bharrhan, Ricky Wiggins Jr., Andrew D. Yurochko. Co-Authors Institutional Affiliations: Not Listed. COBRE
64. David E. Warren, UNMC. **Neuroimaging Acquisition and Analysis (NA2) Core of the Cognitive Neuroscience of Development & Aging (CoNDA) Center.** Co-Authors: Valentina Gumenyuk, David Ellis, Anna Dunaevsky. Co-Authors Institutional Affiliations: UNMC. COBRE
65. Rebeca Sanchez, Delaware State University. **Comparing apoptosis rates in both wild type p53 cells and p53 hypomorphic HCT116 cells following treatment with Mirdametinib.** Co-Authors: Erin Perchiniak. Co-Authors Institutional Affiliations: Not Listed. INBRE
66. Ronald Horswell, Pennington Biomedical Research Center, LSU System. **Modeling Effects of Public Health Policy and Viral Variants on COVID Incidence in Louisiana.** Co-Authors: San Chu, Daniel Fort, Grace Kim, Lucio Miele. Co-Authors Institutional Affiliations: Pennington Biomedical Research Center, Ochsner Health System, Louisiana Clinical and Translational Science Center. CTR
67. Georgiana Graef and Sebastian O'Farrell, Black Hills State University. **COMT Moderates the Association Between Dispositional Gratitude and Pain Outcomes.** Co-Authors: Sabra Tompkins, Luke Whartman, Alyssa Cudney, Taryn Cook, Nathan T. Deichert. Co-Authors Institutional Affiliations: Black Hills State University. INBRE

68. Mohammad Alfrad Nobel Bhuiyan, LSU Health Shreveport. **ViViEchoformer: Predicting ejection fraction from echocardiogram videos via a video vision transformer.** Co-Authors: None. COBRE
69. Ali Firooz, University of South Carolina. **Enhancing Breast Cancer Treatment: Machine Learning Predicts Medication Outcomes.** Co-Authors: Savannah M. Noblitt, Julie Martin, W. Jeffery Edenfield, Anna Blenda, Homayoun Valafar. Co-Authors Institutional Affiliations: University of South Carolina, Prisma Health Cancer Institute. INBRE
70. Hai Yao, Clemson University. **South Carolina COBRE for Translational Research Improving Musculoskeletal Health (SC-TRIMH): Core Facilities.** Co-Authors: Martine LaBerge. Co-Authors Institutional Affiliations: Clemson University. COBRE
71. Intawat Nookaew, University of Arkansas for Medical Sciences. **Refining the identity of mesenchymal cell types associated with murine bone.** Co-Authors: Jinhu Xiong ,Melda Onal, Cecile Bustamante-Gomez, Visanu Wanchai, Qiang Fu, Ha-Neui Kim, Maria Almeida, Charles A. O'Brien. Co-Authors Institutional Affiliations: Not Listed. COBRE
72. Ilka Pinz, MaineHealth Institute for Research. **Loss of Rab27a causes age-induced cardiomyopathy in mice.** Co-Authors: Ashley Soucy, Abigail Kaija, Anne Harrington, Larisa Ryzhova, Calvin PH Vary, Lucy Liaw. Co-Authors Institutional Affiliations: MaineHealth Institute for Research. COBRE
73. Eric Tirrell, Butler Hospital. **Design and Analysis Core: Promoting Best Practice in Experimental Design and Implementation.** Co-Authors: Acuff, W. Luke , Gobin, Asi (Polly), Gonsalves, Meghan, Hannah Swearingen, Barredo, Jennifer , Rich Jones, Linda Carpenter, Benjamin Greenberg. Co-Authors Institutional Affiliations: Butler Hospital TMS Clinic, Neuromodulation Research Facility, COBRE for Neuromodulation, VA Center for Neurorestoration and Neurotechnology, Brown University Warren Alpert Medical School. COBRE
74. Muge Sak, University of Louisville. **Variations in Exon Usage Within Immune-Related Genes in Multiple Sclerosis Brain Lesions.** Co-Authors: Julia H. Chariker, Eric C. Rouchka. Co-Authors Institutional Affiliations: University of Louisville. INBRE
75. Liliana Davalos, University of Nevada, Las Vegas. **The Association Between Personal Perception of Weight Status and BMI among Latino Parents.** Co-Authors: Timothy Grigsby, Brisa Rodriguez Alcantar, Marissa Martinez, Christopher Johansen. Co-Authors Institutional Affiliations: University of Nevada, Las Vegas. INBRE
76. Marcus D. French, Benedict College. **Neurodegenerative disease pathways expressed in flight muscle histolysis of the house cricket, Acheta domesticus.** Co-Authors: Sarah Dornik, Rush H. Oliver. Co-Authors Institutional Affiliations: Walter Reed NMMC. INBRE
77. Janae Phillips, University of North Dakota. **Acute kidney Injury by Hypoxia Activates the Sonic Hedgehog Pathway in Renal Progenitor Cells.** Co-Authors: Seema Somji, Sarmad Al Marsoum, Scott Garrett. Co-Authors Institutional Affiliations: University of North Dakota.
78. Michael G. Nichols, Creighton University. **Development of a non-invasive, non-linear optical biopsy to assess changes in metabolism and collagen structure with the development of UV-induced skin cancer in SKH1 mice.** Co-Authors: Alex Chen, Kennedy A Haase, Reese A Kolar, Jackson M Laurent, Jonathan Li, Aidan J O Mara, Maimuna Nagey, Greer L Porter, Jalen K Ramos, Derek A Remitar III, Abraham J Saks, Hannah Schloman, Jinann A Shoshara, Zachary J Smith, Fiona Sun, Jacob A Sweet, Jake S Wakahiro, Laura A Hansen. Co-Authors Institutional Affiliations: Creighton University. INBRE
79. Ruth Fabian-Fine, Saint Michael's College. **The structural failure of aquaporin 4 expressing Tanycytes may be the underlying cause for neurodegeneration in Alzheimer patients.** Co-Authors: None. INBRE
80. Patrick Habecker, University of Nebraska-Lincoln. **Facilitating Research On Substance Use: The Longitudinal Networks Core (LNC) Service Center.** Co-Authors: Kim Tyler. Co-Authors Institutional Affiliations: University of Nebraska-Lincoln. COBRE

81. Christopher Bender, Marshall University. **Genetic Diversity of the SARS-CoV-2 Virus Over the Course of the COVID-19 Pandemic.** Co-Authors: Julia Cardot, Peter Stoilov, Swarna Kanchan, James Denvir. Co-Authors Institutional Affiliations: West Virginia University, Marshall University. CTR
82. Sarah Thomas, Bradley Hospital/Alpert Medical School of Brown University. **Resting state functional connectivity associated with cognitive flexibility performance in the Adolescent Brain Cognitive Development Study.** Co-Authors: Sarah K. Ryan, Jodi Gilman. Co-Authors Institutional Affiliations: Bradley Hasbro Children's Research Center, MGH/Harvard Medical School. COBRE
83. Tahmina Akter Anondi, Louisiana State University Shreveport. **Predicting Hospitalizations for Asthma and COPD based on PM2.5, seasonality, and COVID-19 factors.** Co-Authors: Mridula Mavuri, Devesh Sarda, Subhajit Chakrabarty. Co-Authors Institutional Affiliations: Louisiana State University Shreveport. INBRE
84. Tara Craft, West Virginia University. **West Virginia University Experimental Stroke Core.** Co-Authors: Kate Weil, Ning Zhang, Deborah Corbin, James Simpkins, A. Courtney DeVries. Co-Authors Institutional Affiliations: West Virginia University. COBRE
85. Reydiliz Nieves-Acevedo, Inter-American University of Puerto Rico, Bayamon Campus. **New Quassinoids Isolated from the Hexane Extract of Simarouba.** Co-Authors: Claudia A. Ospina-Millan. Co-Authors Institutional Affiliations: Inter-American University of Puerto Rico, Bayamon Campus. INBRE
86. Steven M. Poyer, University of Wyoming. **Microbial Stem Cells: Using Asymmetric Division to Enhance Bioreactor Productivity.** Co-Authors: None. INBRE
87. Becca Olson, University of Alaska Fairbanks. **Changes in Anaerobic Cycles in the Boreal Forest.** Co-Authors: None. INBRE
88. Angelie A. Carrión-Vélez, University of Puerto Rico Ri-o Piedras Campus. **Dynamics of the longitudinal changes of Human Papillomavirus infections in women living in Puerto Rico.** Co-Authors: Andrea Cortes-Nazario, Andrea Padilla-Bou, Bianka Morales-Pomalaza, Claudia Rosado-Torres, Josefina Romaguera, Filipa Godoy-Vitorino. Co-Authors Institutional Affiliations: University of Puerto Rico, Medical Sciences Campus University of Puerto Rico. INBRE
89. Simrat Kaur Dhillon, Brown University. **Elucidating the Novel Role of Alternative Splicing of N-type Calcium Channels in Learning and Memory.** Co-Authors: Ava Cardarelli, Colin P. Call, Arturo A. Andrade. Co-Authors Institutional Affiliations: Brown University. INBRE
90. Lyndsay Avery, Saint Michgrael's College. **Determining the effects of a patient mutation in moesin on T cell development.** Co-Authors: Lily Sabol. Co-Authors Institutional Affiliations: Not Listed. INBRE
91. Chelsea Howd, Western Kentucky University. **Examining the Association Between Boredom-Coping Substance Use Motives and Future Self-Injurious Behaviors.** Co-Authors: Anzlee Utley, Danielle Williams, Amy Brausch, Jenni Teeters. Co-Authors Institutional Affiliations: Western Kentucky University. INBRE
92. Emily Schmitt, University of Wyoming. **The Role of Exercise in Controlling Central Mediators of Circadian Rhythm.** Co-Authors: William D. Todd, Cole Wyatt. Co-Authors Institutional Affiliations: Not Listed. COBRE
93. Sharon Patrick, West Virginia Clinical and Translational Science Institute. **Developing a Shared Education and Training Curriculum for Real World Data Sciences in the National COVID Cohort Collaborative (N3C).** Co-Authors: Amber Abel, A. Jerrod Anzalone, Sally Hodder. Co-Authors Institutional Affiliations: West Virginia Clinical and Translational Science Institute, University of Nebraska Medical Center Great Plains-CTR. CTR
94. Andreia Verissimo, Dartmouth College. **bioMT core facilities: advancing research at Dartmouth.** Co-Authors: Angela Kull, Zdenek Svindrych, Pat Robison, Susu He, Noor Taher, Emilie Shipman, Dean Madden. Co-Authors Institutional Affiliations: Not Listed. COBRE

95. Gerrit Bjornstad, Mayville State University. **Utilizing Medium and Long Chain Fatty Acids to Resolve HSA Binding Characteristics in Simple Coumarin Fluorescent Lifetime Probes.** Co-Authors: Thomas Gonnella. Co-Authors Institutional Affiliations: Mayville State University. INBRE
96. Brittany K. Taylor, Boys Town National Research Hospital. **Is your home safe? The neurodevelopmental consequences of chronic indoor radon exposure.** Co-Authors: Haley R. Pulliam, Monica Clarke-Smith, Sarah Hunter, OgheneTejiri V. Smith, Gregory E. Miller, Tony W. Wilson. Co-Authors Institutional Affiliations: Boys Town National Research Hospital, Northwestern University. COBRE
97. Matthew Kays, West Virginia University. **Mice exhibit impaired performance in a pairwise discrimination task after transient middle cerebral artery occlusion.** Co-Authors: Nurullah Sati, Victoria Smith, Clara Woods, Aminata Coulibaly. Co-Authors Institutional Affiliations: West Virginia University. COBRE
98. Reagan Kaleigh Gray, West Liberty University. **Bacillus species inhibits Methicillin-Resistant Staphylococcus aureus growth.** Co-Authors: Joseph Horzempa. Co-Authors Institutional Affiliations: West Liberty University. INBRE
99. Shamrat Kumar Paul, Clemson University. **Exploring the diversity and function of the RTA1-like protein family in Aspergillus fumigatus.** Co-Authors: Stephen K. Dolan. Co-Authors Institutional Affiliations: Clemson University. COBRE
100. Heather Driscoll, Norwich University. **Vermont Biomedical Research Network Data Science Core Facility.** Co-Authors: Julie Dragon, Emily Curd, Nathan Herzog. Co-Authors Institutional Affiliations: University of Vermont. INBRE
101. Morgane Vandendoren, University of Wyoming. **Oxytocin neuron activity and the coordination between social behavior and thermoregulation.** Co-Authors: Jason Landon, Joseph Rogers, Adam Nelson. Co-Authors Institutional Affiliations: University of Wyoming. COBRE
102. Abigail Lind, University of North Dakota. **Treatment with Pevonedistat and APTO-253 downregulates the expression of ALDH3A1, and Upregulates KRT6A and SPRR2A in the As3+-Transformed UROtsa Cell Line.** Co-Authors: Aaron Mehus, Seema Somji. Co-Authors Institutional Affiliations: University of North Dakota. INBRE
103. Hannah Higgins, Coastal Carolina University. **Synthesis of Phenyl Containing Phidianidine Analogs.** Co-Authors: Anna Tingler, Trinity Ghering, Samuel Ross, Bryan Wakefield. Co-Authors Institutional Affiliations: MUSC, CCU. INBRE
104. Elsa Shaikh, Furman University. **Benign taste experience during development impacts rodent taste learning and processing in adulthood.** Co-Authors: Veronica L Flores. Co-Authors Institutional Affiliations: Furman University. INBRE
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409. David Ruiz Bolivar, University of Puerto Rico Medical Health Science Campus. **Boosting Memory Potential: How Exercise-Induced Metabolic Transformations in the Hippocampus Can Fuel Neurogenesis.** Co-Authors: Nicole Rodriguez Trujillo, Alejandra Vazquez Medina, Patricia Morales Iglesias, Karina Marin Hernandez, Danniel Rivera Ortiz, Briana Bello Rivera, Francisco Vizcarrondo Fornaris, Filipa Godoy Vitorino, Nataliya Chorna. Co-Authors Institutional Affiliations: University of Puerto Rico Rio Piedras Campus, University of Puerto Rico School of Medicine. INBRE
410. Jagdish Patel, University of Idaho. **Computational modeling of opsin function in visual pigments.** Co-Authors: Jonathan E. Barnes. Co-Authors Institutional Affiliations: University of Idaho. COBRE
411. Elio Frank Delatore III, West Liberty University. **Utilization of Double-Immunofluorescence Microscopy to determine the role of FTL_1199 in erythrocyte invasion by Francisella tularensis.** Co-Authors: Joseph Horzempa. Co-Authors Institutional Affiliations: West Liberty University. INBRE
412. Zhejia Dong, Department of Biostatistics, Brown University. **Towards Valid Statistical Inference under Network Dependence.** Co-Authors: Youjin Lee. Co-Authors Institutional Affiliations: Brown University. COBRE
413. Raymond Anan Otoo, University of Arkansas at Little Rock. **Impact of Simulated Microgravity and Radiation on the Gut Microbiome.** Co-Authors: None. INBRE
414. Carl J Rorstrom, Washburn University. **Exploring Protein-Protein Docking of Sox2 and HDAC1 Proteins.** Co-Authors: Allan Ayella. Co-Authors Institutional Affiliations: Washburn University. INBRE
415. Chamani Perera, University of Kansas. **The Synthetic Chemical Biology Core (SCB): A Resource for Research in Chemical Biology.** Co-Authors: None. COBRE
416. Dev Majumdar, University of Vermont. **Hallmarks of mRNA/LNP Immunogenicity for the Rational Design of Vaccines and Therapeutics.** Co-Authors: William Dowell, Jacob Dearborn, Sylvester Languon, Zachary Miller, Tylar Kirch, Olivia Garvin, Lily Kjendal, Ethan Harby, Adam Zuchowski, Emily Clark, Carlos Lescieur Garcia, Jesse Vix, Amy Schumer, Somen K Mistri, Kalev Freeman, Deena B. Snoke, Michael J. Toth, Matthew E. Poynter, Jonathan E. Boyson, Devdoot Majumdar. Co-Authors Institutional Affiliations: University of Vermont. COBRE
417. Abigail G Weatherford, Presbyterian College. **Open chromatin regions identified by ATACseq correspond with overexpression of metastatic drivers in dual p53/PTEN-deleted metastasis-transformed MCF10A breast cells.** Co-Authors: Margaret V Leonard, Charlotte B McGuinness, Megan A Wilson, Austin Shull. Co-Authors Institutional Affiliations: Presbyterian College. INBRE
418. Edu B Suarez Martinez, University of Puerto Rico in Ponce. **Asthma and Persistent Allergic Rhinitis Cytokine-Specific Profile in Puerto Ricans: Step Closer to Biologically-Based Diagnostic Tool.**

Co-Authors: Guillermo Armaiz, Camilo Mora, Lisandro Cunci. Co-Authors Institutional Affiliations: Ponce Health Sciences University, University of Puerto Rico Mayaguez, University of Puerto Rico Rio Piedras. INBRE

419. Joelle Hannam, North Dakota State University. **Sociodemographic factors and sleep: An intersectional framework.** Co-Authors: Odalis G. Garcia, Jeremy M. Hamm, Matthew Pierce, Laura Klepacz, Katherine A. Duggan. Co-Authors Institutional Affiliations: North Dakota State University. INBRE
420. Margarita Echeverri, Xavier University of Louisiana. **LACaTS's Community Scholars Program (LaCoSP).** Co-Authors: Margarita Echeverri, LaKeisha Williams, Stephanie Broyles, Jennifer Caldwell, D'Andra Odom. Co-Authors Institutional Affiliations: Xavier University of Louisiana, Pennington Biomedical Research Center. CTR
421. Debarshi Roy, Alcorn State University. **Environmental factors playing a crucial role in triggering cancer in the "cancer alley" in Louisiana.** Co-Authors: Subhajit Chakrabarty, Priyadarshini Dasgupta. Co-Authors Institutional Affiliations: Louisiana State University - Shreveport, Southeastern Louisiana University. INBRE
422. Oxana Gorbatenko, Black Hills State University. **The Western South Dakota Genetics and Genomics Core Facility.** Co-Authors: Cynthia Anderson. Co-Authors Institutional Affiliations: Not Listed. INBRE
423. Angel Mayor, Universidad Central del Caribe. **Trends in neoplasm incidence among a Hispanic cohort of Person with HIV in the Caribbean.** Co-Authors: Diana Fernandez. Co-Authors Institutional Affiliations: Universidad Central del Caribe. CTR
424. Md Imran Hossain, Louisiana State University. **Regulation of Dynein-dependent HSV-1 Virion Retrograde Transport by Viral and Cellular Kinases.** Co-Authors: Brent Stanfield, Vladimir Chouljenko, Harikrishnan Mohan, Christella J Nelson, Ojasvi Dutta, Konstantin Gus Kousoulas. Co-Authors Institutional Affiliations: Not Listed. COBRE
425. Sierra Grace Keele, University of Idaho. **Transcriptional investigations into neonatal gut development related to early feeding.** Co-Authors: Laurel Nunez, Jordan Richter, Yimin Chen, Mataya Fox, Bethaney Fehrenkamp. Co-Authors Institutional Affiliations: University of Idaho, Idaho WWAMI Medical Education University of Washington School of Medicine. INBRE
426. Zaina Punter, Delaware Technical Community College. **Development of a CRISPR-cas12a Gene Editing System to Mutate GFP Gene to Produce BFP and CFP.** Co-Authors: Naiesha Brown, John McDowell. Co-Authors Institutional Affiliations: Not Listed. INBRE
427. Bethany McManus, Presbyterian College. **Assessing the Impact of the N185D Mutation on NPC1 Through In-Silico Analysis.** Co-Authors: Marharyta Petukh. Co-Authors Institutional Affiliations: Presbyterian College. INBRE
428. Katherine Martin, University of Delaware. **University of Delaware Mass Spectrometry Core Facility.** Co-Authors: Papa Nii Asare-Okai, Yanbao Yu. Co-Authors Institutional Affiliations: University of Delaware. COBRE
429. Michael Moore, Delaware State University. **OSCAR Imaging Facility at Delaware State University.** Co-Authors: Hacene Boukari. Co-Authors Institutional Affiliations: Not Listed. INBRE
430. Rachel Veri, Coastal Carolina University. **Molecular Characterization of the Mycobacteriophage Refuge.** Co-Authors: Brannon LaFrancis, Daniel C. Williams. Co-Authors Institutional Affiliations: Coastal Carolina University. INBRE
431. Abhishek Pandit, Louisiana State University. **Unraveling Tamoxifen's Impact: Autophagy, MAPK Signaling, and ER Expression in Endometrial Cancer.** Co-Authors: A. Pandit, S. Thota, R. Begum, , B. Sapkota, N. Chintala, CA. Simintiras, J. Francis. Co-Authors Institutional Affiliations: Louisiana State University and A&M College. COBRE
432. Xuyi (Kevin) Yue, Nemours Children's Health. **Design and Synthesis of PET Imaging Probes for the Brain Lymphatic System by Targeting Vascular Endothelial Growth Factor Receptor-3.** Co-Authors: Wenqi Xu, David K. Johnson, Sigrid A. Langhans, Erik Stauff, Vinay V.R. Kandula, Heidi H.

- Kecskemethy, Thomas H. Shaffer, Lauren W. Averill, Xuyi Yue. Co-Authors Institutional Affiliations: Nemours Children's Hospital, University of Kansas. INBRE
433. Shirin Ghods, University of Louisville. **Crucial Role of Cobalamin (Vitamin B12) in Stress Response Mechanisms of Porphyromonas gingivalis.** Co-Authors: Saba Tohidkhah, Mozghan Mousavi. Co-Authors Institutional Affiliations: Not Listed. COBRE
434. Savannah Noblitt, University of South Carolina. **The Creation and Implementation of a Novel Database for Medical School Research Tracking and Student Research Opportunities.** Co-Authors: Savannah Noblitt, Sabrina Carrel, Kirby Allen, Victoria Lawhun Costello, Anna V. Blenda, Homayoun Valafar. Co-Authors Institutional Affiliations: University of South Carolina, University of South Carolina School of Medicine. INBRE
435. Patience Okoto, University of Arkansas. **Bioenergetics Core at the Arkansas Integrative Metabolic Research Center at the University of Arkansas.** Co-Authors: Suresh Thallapuram. Co-Authors Institutional Affiliations: Not Listed. COBRE
436. Claudine T. Jurkowitz, ChristianaCare Health Services, Inc. **BERD: A Biostatistics Epidemiology Research Design core for the Delaware IDEa Network.** Co-Authors: None. CTR
437. Balqees Ara, CAMC Institute for Academic Medicine. **Database Determination of Relative Risk of Neuropathy with SARS-CoV-2 Infection, Type 2 Diabetes Mellitus, and Associated Predictive Biomarkers.** Co-Authors: Sonya Dunlap, James Russell. Co-Authors Institutional Affiliations: CAMC Neurology Research Center, WVU.
438. Jason Landen, University of Wyoming. **Huddling substates in mice dynamically control body temperature and are modulated by Shank3b and Trpm8 mutation.** Co-Authors: Morgane Vandendoren, Samantha Killmer, Nicole Bedford, Adam Nelson. Co-Authors Institutional Affiliations: University of Wyoming. COBRE
439. Karina Kapusta, Tougaloo College. **Unraveling Immune Evasion: In Silico Investigation of Novel SARS-CoV-2 Variants Dynamics Complexed with Neutralizing Antibodies.** Co-Authors: Allyson McGowan, Jordhan Booth, Jerzy Leszczynski. Co-Authors Institutional Affiliations: Tougaloo College, Jackson State University. INBRE
440. Vinicius Magalhaes Borges, Marshall University. **ACOX1-CAT Multimeric Chain Formation: Implications for Ethanol Metabolism.** Co-Authors: Natalia Fagundes Borges Teruel, Anna Mazur, W. Christopher Risher, James Denvir, Yongke Lu, Alejandro Q. Nato, Jr. Co-Authors Institutional Affiliations: Universite de Montreal, Marshall University. INBRE
441. Wesley Kimble, West Virginia Clinical and Translational Institute. **Necessity Driven Clinical Data Architecture: Building a Scalable COVID-19 Research and Operations Registry.** Co-Authors: Emily Morgan, Matthew Armistead. Co-Authors Institutional Affiliations: West Virginia Clinical and Translational Science Institute. CTR
442. Benjamin Tero, MaineHealth Institute for Research. **A Human Abdominal Aortic Aneurysm-Derived Smooth Muscle Cell 3D Ring Model.** Co-Authors: Larisa Ryzhova, Abigail Kaija, Anne Harrington, Kimberly Malka, William DeMaria, Marsha Rolle, Lucy Liaw. Co-Authors Institutional Affiliations: MaineHealth Institute for Research, Worcester Polytechnic Institute, Roux Institute at Northeastern University. COBRE

POSTER PRESENTATIONS BY ORAL PRESENTERS (OPTIONAL)

Attendees selected for Short Research Presentations and Flash Talks were provided with an option to present a poster during NISBRE2024. Not all presenters will choose to participate in both sessions. Posters by oral presenters are numbered alphabetically by the author's first name to assist in finding presenters during the session. Note that posters between 443 and 517 may not be displayed in numerical order during the poster session.

443. Adam C. Nelson, University of Wyoming. **The role of oxytocin neurons of the paraventricular hypothalamic nucleus in social thermoregulation.** Co-Authors: Joe Rogers, Morgane

- Vandendoren, Jason Landen, Samantha Killmer, Baizar Alamiri, Nicole Bedford. Co-Authors Institutional Affiliations: University of Wyoming. COBRE, Flash Talk
444. Adriana Aponte Ramos, Inter American University of Puerto Rico, Bayamon Campus. **Exploring Ergosterol Peroxide's Mechanism of Action on the VCP / ANKZF1 Complex in Triple Negative Breast Cancer Models.** Co-Authors: Michelle Martinez Montemayor. Co-Authors Institutional Affiliations: UCC School of Medicine. CTR, Flash Talk
445. Akash J. Vaidya, University of Delaware. **Repurposing Barley-Stripe Mosaic Virus for Cancer Immunotherapy.** Co-Authors: Mruthula Rammohan, Jesal Patel, Evan Gillen, Robyn Logue, Kevin V. Solomon. Co-Authors Institutional Affiliations: University of Delaware. INBRE, Flash Talk
446. Alexa Bostic, West Virginia University. **Dielectric Characterization of HL-60 Cells under Microgravity.** Co-Authors: Soumya Srivastava. Co-Authors Institutional Affiliations: Not Listed. Flash Talk
447. Alexei G. Basnakian, University of Arkansas for Medical Sciences. **Modification of the TUNEL assay with increased sensitivity to nanoparticles.** Co-Authors: Olena Levurdiak, Shenyang Li, Zach McGowan, Fidaus Razak, Randal S. Shelton, Qinglong Jiang. Co-Authors Institutional Affiliations: University of Arkansas for Medical Sciences, Central Arkansas Veterans Healthcare System, University of Arkansas in Pine Bluff. COBRE, Short Research Presentation
448. Alia Tereza Sadek, University of South Carolina School of Medicine Greenville. **Resistance and Intracellular Survival of Atypical Acinetobacter baumannii Isolates from a Fatal Case of Necrotizing Fasciitis.** Co-Authors: Elias M. Wheibe, Kyleigh Connolly, Christine Liu, Chelsea R. Gutierrez, Brock A. Arivett, Ryan F. Relich, Luis A. Actis, Steven Fiester, Maria Soledad Ramirez, Jennifer T. Grier. Co-Authors Institutional Affiliations: INBRE, Flash Talk
449. Ana-Maria Dragoi, LSUHSC Shreveport. **Interaction of human macrophages with Neisseria gonorrhoeae.** Co-Authors: Maria Dolores Juarez Rodriguez, Stanimir Ivanov. Co-Authors Institutional Affiliations: LSUHSC-Shreveport. COBRE, Short Research Presentation
450. Anastacia Kudinova, Alpert Medical School of Brown University. **Quadratic association between ecologically assessed sleep duration and next-day suicidal ideation in youth.** Co-Authors: Jacqueline Nesi, Sarah K. Ryan, Ella Diab, Mary A. Carskadon. Co-Authors Institutional Affiliations: Alpert Medical School of Brown University. COBRE, Short Research Presentations
451. Avishek Mitra, Oklahoma State University (OSU). **A Novel Class of Channel Forming Membrane Proteins Mediate Heme Iron Acquisition in Mycobacterium tuberculosis.** Co-Authors: Padam Singh. Co-Authors Institutional Affiliations: Oklahoma State University. COBRE, Short Research Presentation
452. Bao Vu, University of Oklahoma Health Sciences. **Upc2A: A Key Regulator of Triazole Resistance and Hypoxic Fitness in Candida glabrata.** Co-Authors: None. COBRE, Flash Talk
453. Bedia Akosman, Rhode Island Hospital. **Deciphering the Role of the SOX17/Runx1 Axis in Endothelial Dysfunction and Pulmonary Arterial Hypertension Pathogenesis.** Co-Authors: Eui Young So, Mandy Pereira, Moon-Jung Choi, Euy-Myoung Jeong, James Klinger, Olin Liang. Co-Authors Institutional Affiliations: Rhode Island Hospital, Warren Alpert Medical School of Brown University. COBRE, Flash Talk
454. Belinda Joyce Petri, University of Louisville. **Differential m6A modification identified by direct mRNA sequencing in endocrine-resistant and sensitive breast cancer cells.** Co-Authors: Kellianne M. Piell, Eric C. Rouchka, Carolyn M. Klinge. Co-Authors Institutional Affiliations: University of Louisville School of Medicine. INBRE, Short Research Presentation
455. Benjamin King, University of Maine. **Inhibition of NADPH Oxidase 2 Improves Survival in Zebrafish Infected with Influenza A Virus.** Co-Authors: Brandy-Lee Soos, Alec Ballinger, Mykayla Weinstein, Julianna Grampone. Co-Authors Institutional Affiliations: University of Maine. COBRE, Flash Talk
456. Bhaswati Kashyap, University of Delaware. **Elevated Mitochondrial CD36 and Superoxide Production in Endothelial Cells Exposed to Prolonged High Glucose and Fatty Acids In-vitro.** Co-Authors: Thanh Nguyen, Erica Johnson, Ibra S Fancher. Co-Authors Institutional Affiliations: Not Listed. COBRE, Short Research Presentation
457. Bikram Subedi, Murray State University. **Wastewater Analysis - Near Real Time Approach of**

- Estimating Substance Use.** Co-Authors: Anita Sapkota, Durga P. Kodati, Landon Jones, Jusdin Kamuf. Co-Authors Institutional Affiliations: Murray State University, INBRE, Short Research Presentation
458. Brigitte E Martin, University of Mississippi Medical Center. **Temporal dynamics of cardiovascular response to influenza infection in mice.** Co-Authors: Kurt C Showmaker, Austin A Medders, Jacqueline B Starrett, Lavanya Challagundla, Michael R Garrett. Co-Authors Institutional Affiliations: The Jackson Laboratory for Genomic Medicine, University of Mississippi Medical Center. COBRE, Short Research Presentation
459. Cammi Valdez, Northeastern State University. **Characterizing a New Longitudinal Mouse Model of Diabetic Retinopathy.** Co-Authors: Cammi Valdez, Erica Dotson, Joshua Butcher, Phillip Coburn. Co-Authors Institutional Affiliations: Northeastern State University, Harold Hamm Diabetes Center, The University of Oklahoma Health Sciences Center, Oklahoma State University, The University of Oklahoma Health Sciences Center. INBRE, Short Research Presentation
460. Carly Michelle Goldstein, PhD, FAACVPR, The Miriam Hospital/Alpert Medical School of Brown University. **Using the Multiphase Optimization Strategy and an Electronic Health Record Review to Refine, Finalize, and Prepare Trauma-Informed Interventions to Increase Phase II Cardiac Rehabilitation Initiation in a Full Factorial Experiment.** Co-Authors: J. Graham Thomas, Benjamin T. Ladd, Wen-Chih Wu. Co-Authors Institutional Affiliations: The Miriam Hospital/Alpert Medical School of Brown University, Providence VA Medical Center. COBRE, Flash Talk
461. Caroline de Carvalho Picoli, MaineHealth Institute for Research. **The Gut-Bone Connection: Gastric X/A-like Cells and Skeletal Homeostasis.** Co-Authors: Caroline de Carvalho Picoli, Jeyrie Ramos Aponte, Tiange Feng, Clifford J Rosen, Ziru Li. Co-Authors Institutional Affiliations: MaineHealth Research Institute, MMC Medical School. COBRE, Short Research Presentation
462. Christopher Johansen PhD, MPH, University of Nevada, Las Vegas. **Parental acculturation and its association with preschool-aged child's health behaviors among Latinos in Southern Nevada.** Co-Authors: Miguel Fudolig, Liliana Davalos, Brisa Rodriguez, Marissa Martinez. Co-Authors Institutional Affiliations: University of Nevada Las Vegas. INBRE, Short Research Presentation
463. Daysha Marie Isaac, Langston University. **Stalk Cell Movement in Drosophila: a model to understand how migrating cells shape tissues and organs.** Co-Authors: Sally Horne-Badovinac, Jocelyn A. McDonald. Co-Authors Institutional Affiliations: University of Chicago, Kansas State University. INBRE, Flash Talk
464. Debora Kamin Mukaz, University of Vermont Larner College of Medicine. **Residential Segregation and Thrombo-inflammatory Biomarkers Related to Hypertension in Black and White Americans.** Co-Authors: Andrew D. Sparks, Ryan Packer, Suzanne E. Judd, Virginia J. Howard, April P. Carson, Timothy B. Plante, D Leann Long, Katharine Cheung, Mary Cushman. Co-Authors Institutional Affiliations: University of Vermont Larner College of Medicine, University of Alabama at Birmingham, University of Mississippi Medical Center, Wake Forest University. COBRE, Short Research Presentation
465. Devin M. Drown, University of Alaska Fairbanks. **Impact of Arctic Thaw on Soil Microbial Communities and Emerging Environmental Health Risks.** Co-Authors: Bevyn Cover. Co-Authors Institutional Affiliations: University of Alaska Fairbanks. INBRE, Short Research Presentation
466. Dionysios Patriarcheas, West Virginia University. **Deciphering Glyphosate Resistance Mechanisms: Insights from *S. cerevisiae* into Mitochondrial Function and Human Glutamate Transport.** Co-Authors: Jennifer E. G. Gallagher. Co-Authors Institutional Affiliations: West Virginia University. CTR, Short Research Presentation
467. Dylan Feist, Kansas State University. **Fine-tuning of Cell-ECM Assembly by Transglutaminase.** Co-Authors: Erika R. Geisbrecht, Nicole Green. Co-Authors Institutional Affiliations: Kansas State University, Cornell College. INBRE, Short Research Presentation
468. Elizabeth B. Quigley, University of Wyoming. **Sexually Dimorphic JNK Signaling in the Gonadotrope is Important for Female Fertility Regulation.** Co-Authors: Alexandra Verosky, Brian S. Edwards, Shaihl A. Khan, Ulrich Boehm, Roger J. Davis, Amy M. Navratil. Co-Authors Institutional Affiliations: University of Wyoming, Laramie, University of Colorado, Mayo Clinic, Genus PLC, Saarland University School of Medicine, University of Massachusetts Medical School, Howard

- Hughes Medical Institute. INBRE, Short Research Presentation
469. Emily E. Schmitt, University of Wyoming. **The aging mouse as a novel model of nocturia.** Co-Authors: Danielle R. Bruns, Nicole L. Bedford. Co-Authors Institutional Affiliations: University of Wyoming. INBRE, Short Research Presentation
470. Emily Tolbert, Kansas State University. **cHPV E6 reduces innate immune signaling.** Co-Authors: Dalton Dacus, Rose Pollina, Nicholas A. Wallace. Co-Authors Institutional Affiliations: Enliven Therapeutics, Kansas State University. COBRE, Flash Talk
471. Emily Zeitler, Dartmouth Health. **Experience of Remote Monitoring of Cardiac Implantable Electronic Devices in Rural New England.** Co-Authors: Laure Bernstein, Jennifer Wenner, Nichole Rogovoy, Mark Creager, Karen Schifferdecker. Co-Authors Institutional Affiliations: Dartmouth Health. COBRE, Flash Talk
472. Erica J. Johnson, University of Delaware. **Subcutaneous adipose arteries exhibit significantly less fatty acid uptake in obesity.** Co-Authors: Thanh Nguyen, Sabita Rokka, Caitlin Halbert, Ibra S. Fancher. Co-Authors Institutional Affiliations: University of Delaware. COBRE, Flash Talk
473. Erica Sood, Nemours Children's Health. HEARTPrep: **A digital health psychosocial intervention for mothers expecting a baby with congenital heart disease.** Co-Authors: Kimberly Canter, Anne E. Kazak, Angel Munoz-Osorio, Alejandra Perez Ramirez. Co-Authors Institutional Affiliations: Nemours Children's Health. COBRE, Short Research Presentation
474. Gary ZeRuth, Murray State University. **Gli-similar 3 is essential for proper pancreatic and kidney development in zebrafish.** Co-Authors: None. INBRE, Flash Talk
475. Hamed Fayyaz, University of Delaware. **An Interoperable ML Pipeline for Pediatric Obesity Risk Prediction using Commonly Available EHR Data.** Co-Authors: Mehak Gupta, H. Timothy Bunnell, Claudine Jurkovitz Thao-Ly, Thao-Ly Phan, Rahmatollah Beheshti. Co-Authors Institutional Affiliations: Southern Methodist University, Nemours Children's Health, ChristianaCare, University of Delaware. CTR, Flash Talk
476. Hannah Ladwig, Creighton University. **Structural Analysis of Crassostrea gigas OAZ-PK RNA.** Co-Authors: Rhiannon McCracken, Juliane Soukup. Co-Authors Institutional Affiliations: Creighton University. INBRE, Flash Talk
477. Harilaos Filippakis, University of New England. **Therapeutic targeting of Tryptophan-mediated macropinocytosis in Tuberos Sclerosis Complex.** Co-Authors: Sarah Lafleur, Windrie Cox, Aidan McGrath-Conwell, Elizabeth P. Henske, Harilaos Filippakis. Co-Authors Institutional Affiliations: University of New England. COBRE, Short Research Presentation
478. Heather Drummond, University of Mississippi Medical Center. **Acid sensing ion channel 2 (ASIC2) deficiency increases light cycle ambulatory activity in mice.** Co-Authors: Kylie M. Larson, Emily Hildebrandt, Jussara do Carmo. Co-Authors Institutional Affiliations: University of Mississippi Medical Center. COBRE, Short Research Presentation
479. Janeese A Brownlow, PhD, Delaware State University. **An Examination of Neighborhood Disadvantage and Stress on Objective Sleep and Sleep-Related Fears.** Co-Authors: None. INBRE, Short Research Presentation
480. Jared C Talbot, University of Maine. **Fast-twitch myofibrils grow in proportion with Mylpf dosage.** Co-Authors: Adekeye TE, Teets EM, Tomak E, Sprague K, Waterman S, Varga S, Austin J, Rodriguez-Medio C, Hupper T, Shepherd SJ, Amacher SL, Kelley JB, Talbot JC. Co-Authors Institutional Affiliations: University of Maine, Ohio State University. COBRE, Short Research Presentation
481. Karthik Swaminathan, University of Wyoming. **Ribosomal Heterogeneity in Stress Neurobiology.** Co-Authors: Rammohan Shukla. Co-Authors Institutional Affiliations: University of Wyoming. COBRE, Flash Talk
482. Katherine A. Berry, University of Wyoming. **Anxiety on the rocks: College students' anticipatory and compensatory urges to drink in response to a laboratory-based social stressor task.** Co-Authors: Alison Looby. Co-Authors Institutional Affiliations: University of Wyoming. INBRE, Flash Talk
483. Kevin Michael Brown, University of Oklahoma Health Sciences Center. **Elucidation of TgPKG kinase substrates required for Toxoplasma motility.** Co-Authors: Gabriel Cabral, Bingjian Ren, Sebastian

- Nasamu. Co-Authors Institutional Affiliations: University of Oklahoma Health Sciences Center, University of Geneva. COBRE, Short Research Presentation
484. Khadija Kakar, University of South Carolina School of Medicine. **Protective Effects of Delta-8-THC Against EAE-Induced Enteric Neuropathy and Neuroinflammation through Regulation of miRNA-Mediated Signaling Networks.** Co-Authors: Urmi Halder, Manikandan Palrasu. Co-Authors Institutional Affiliations: Not Listed. COBRE, Flash Talk
485. Lauren Covington, University of Delaware. **Socio-ecological Stressors Among Mothers Experiencing Socioeconomic Disadvantage.** Co-Authors: Destiny Mahmood, Kiara Shay, Emma Archer, Freda Patterson, Emily Hauenstein. Co-Authors Institutional Affiliations: University of Delaware, University of Virginia. CTR, Flash Talk
486. Leela V. Thomas, Delaware State University. **Influence of social determinants on maternal and infant complications of gestational diabetes mellitus.** Co-Authors: Zugui Zhang, Claudine T. Jurkovitz, Mitchell R. Fawcett, M. James Lenhard. Co-Authors Institutional Affiliations: ChristianaCare Health Services Inc., Sidney Kimmel Medical College. CTR, Short Research Presentation
487. Leya Givvines, West Virginia School of Osteopathic Medicine. **Ovariectomy exacerbates plasma IgE and lung eosinophilia, but is not associated with greater vascular endothelial dysfunction in asthmatic mice.** Co-Authors: Abigail R. Patterson, Marina Diioia, Dovenia S. Ponnath, Shinichi Asano. Co-Authors Institutional Affiliations: West Virginia Wesleyan College, West Virginia School of Osteopathic Medicine. INBRE, Flash Talk
488. Lisa T. Jansen, University of Arkansas for Medical Sciences - Arkansas Children's Nutrition Center. **Impact of Physical Activity Intervention on Longitudinal Glycemic Patterns in Pregnant Women with Obesity: A CGM Pilot Study.** Co-Authors: Scott Stewart, Lilian Cheak, Precious Jeffrey, Aline Andres. Co-Authors Institutional Affiliations: Arkansas for Medical Sciences, Arkansas Children's Nutrition Center, Arkansas Children's Research Institute. COBRE, Short Research Presentation
489. Lydia Ostmo, Northeastern State University. **Unraveling the functions of Polymerase Epsilon complex in DNA replication and DNA damage.** Co-Authors: Brandy Fultz, Sapna Das-Bradoo. Co-Authors Institutional Affiliations: Northeastern State University. INBRE
490. Luz Maria Deardorff, University of Hawai'i Maui College. **Environmental Microbes as Indicators of Human Health Risk After the Lahaina Wildfires.** Co-Authors: Tara Zamani, Michelle Gould, Sally Irwin, Junnie June, Rachel Wilsey, Jennifer Honda. Co-Authors Institutional Affiliations: University of Hawai'i Maui College, University of Texas Health Science Center. INBRE, Short Research Presentation
491. Mabruka Alfaidi, LSHSC. **Interleukin-1 Receptor Activation in Vascular Remodeling and Early Atherosclerosis.** Co-Authors: Siddhartha Gangopadhyay, Evan Kidder, Meleah Pea, Quartina Henderson, Siyuan Cheng, Matthew Woolard, Xiuping Yu, Mabruka Alfaidi. Co-Authors Institutional Affiliations: Feist-Weiller Cancer Center, Center for Cardiovascular Diseases and Science (CCDS), Louisiana State University Health Sciences Center. COBRE, Short Research Presentation
492. Manikandan Palrasu, Dept of Pathology, Microbiology and Immunology, School of Medicine, University of South Carolina. **Aryl hydrocarbon receptor transcriptionally regulates beta-defensin-1 and consequently suppresses colonic inflammation during colitis.** Co-Authors: Khadija Kakar, FNU Hamida, Amarnath Satheesh Marudamuthu, Tayler Carter, Kiesha Maria Wilson, Archana Saxena, Xiaoming Yang, Narendra P. Singh, Philip Brandon Busbee, Prakash Nagarkatti, Mitzi Nagarkatti. Co-Authors Institutional Affiliations: University of South Carolina School of Medicine. COBRE, Flash Talk
493. Manisha Thakur, Southern University and A&M college. **Unraveling the Interplay: Carbon Nanotubes, Inflammation, and Environmental Stressors.** Co-Authors: Sanjay Batra. Co-Authors Institutional Affiliations: Southern University and A&M college. Short Research Presentation
494. Martha Rojo, University of Arkansas for Medical Sciences. **Hispanic Faith-based leaders' perspectives on healthy eating interventions in the Hispanic community.** Co-Authors: Hannah Aston, Johnathan Rodriguez, Erickson Feliciano, Carson Guatemala, Janet Lopez. Co-Authors Institutional Affiliations: Not Listed. COBRE, Flash Talk
495. Maria Jesus Ruiz Echevarria, Oklahoma University Health Sciences, Faculty. **Towards Identifying Novel Therapies for Prostate Cancer.** Co-Authors: Joshua M. Corbin. Co-Authors Institutional

Affiliations: Duke University. INBRE, Short Research Presentation

496. Matthew D Lyles, MaineHealth Institute for Research. **Peroxiredoxin 2 protects Trpv1+ derived fat cells from excessive reactive oxygen species induced cell death.** Co-Authors: Breanna Morrill, Carolina Cora, Wadak Harbi, Caitlin Ellis, Benjamin Tero, Kimberly Malka, Lucy Liaw. Co-Authors Institutional Affiliations: MaineHealth Institute for Research, University of Southern Maine. COBRE, Short Research Presentation
497. Md Jobayer Hossain, Nemours Children's Health, Wilmington. **Precision Race-Ethnic Disparity in Mortality Risk in Pediatric Cancers: A Study Using SEER Data.** Co-Authors: Zhaoying Lu, Araf Hossain Jahin. Co-Authors Institutional Affiliations: Nemours Children's Health, University of Delaware. CTR, Short Research Presentation
498. Mehtap Haktanir Abul, Alpert Medical School Brown University, Rhode Island Hospital. **Asthma and Sleep-Related Environmental Factors Contributing to Sleep Awakenings in Urban Children with Asthma.** Co-Authors: Sheryl J. Kopel, Shira Dunsiger, Luiz Guzman, Carly Mattice, Sidney Kirchhof, Caroline Gredvig-Ardito, M. Carskadon. Co-Authors Institutional Affiliations: Rhode Island Hospital, Alpert Medical School of Brown University, Bradley-Hasbro Research Center, EP Bradley Hospital Sleep Research Laboratory. CTR, Flash Talk
499. Michael Robichaux, West Virginia University. **Misfolded rhodopsin disrupts the ER secretory pathway to the presynaptic terminals of rod photoreceptors in a retinitis pigmentosa mouse model with retinal neurodegeneration.** Co-Authors: Samantha Thompson, Sophie Crowder, Emily Sechrest, Wen-Tao Deng. Co-Authors Institutional Affiliations: West Virginia University. COBRE, Short Research Presentation
500. Michayla Moore, MaineHealth Institute for Research (MHIR). **BMP9/ALK1 Signaling is Required for Transcription and Secretion of Mesenchymal Stem Cell Marker, ISLR (Meflin), in Human Cardiac Progenitor Cells.** Co-Authors: Calvin Vary, Douglas Sawyer. Co-Authors Institutional Affiliations: MaineHealth Institute for Research. COBRE, Short Research Presentation
501. Motoki Takaku, University of North Dakota. **Dissecting cellular reprogramming by genomics and machine learning.** Co-Authors: Mika Saotome, Aerica Nagornyuk, Jill Goodman. Co-Authors Institutional Affiliations: University of North Dakota School of Medicine. COBRE, Flash Talk
502. Prateek Verma, University of Arkansas. **Evaluation of Large Vision Language Models on Scientific Images.** Co-Authors: Minh-Hao Van, Xintao Wu. Co-Authors Institutional Affiliations: University of Arkansas. COBRE, Short Research Presentation
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