2023 Lab Assignments

Names	Host	Project
Georgiette Adejayan, NIH	Travis Thomson, PhD	Viral-Like Travel: A study of viral-like movements of the retrotransposon Copia
University of Connecticut 2024		
Nichole Agwu, NIH	Eduardo Torres, PhD	Inhibition of De Novo Sphingolipid Synthesis Disrupts Nuclear Envelope Integrity of RPE-
Boston University 2024		1 Cells
Minjun Ahn, SURE	Darren Lee, PhD	The Role A2Ar has on the Induction of Regulatory T cells in Uveitis
University of Massachusetts Amherst 2025		
Annika Bajaj, SURE	Cole Haynes, PhD	Perturbation in the Extracellular Matrix Induces the Mitochondrial Unfolded Protein
Amherst College 2025		Response
Melissa Ballin Cardona, NIH	Samuel Behar, MD, PhD	Optimizing An Immunoassay to Detect Bacillus Calmette-Guérin-Elicited Antibodies
Macalester College 2025		
Gabriel S.J. Barreto D'Silva, NIH	J. Kevin Donahue, MD	Mechanism Study: How Does AdCain Reduce Hypertrophy in Atrial Fibrillation
Wake Forest University 2024		
Samantha Belculfine, NIH	Milena Bogunovic, MD, PhD	Characterization of Enteric Neurons in Inflammatory Bowel Disease
University of Massachusetts Amherst 2023	E'I G d L ND	
Emma M. Boudreaux, SURE	Erik Sontheimer, PhD	Prime Editing with Cas9 Nuclease sRGN3.1
University of Maine College of NSFA 2025		
Ashley N. Bradshaw, NIH	Josue FloresKim, PhD	Characterization of LytR, a novel factor required for antibiotic resistance in Streptococcus
New Mexico Institute of Mining and Technology 2025		pneumoniae
Kayla M. Carmona-Swisher, NIH	Hayla Sluss, PhD	Genetic Interaction Between p53 and MDM2 and MDMX
University of Massachusetts Dartmouth 2024 Gabriel E. Cruz-Fernández, NIH	Accalia Mai-Wan Fu, PhD	Characterization of Pancreatic Islet and Macrophage Interactions in Diabetes
University of Puerto Rico Mayaguez 2024	Accana Mai-wan Fu, PhD	Characterization of Functeatic Ister and Macrophage Interactions in Diabetes
Grace H. Dodd, NIH	Elizabeth Shank, PhD	Investigating antagonism and coculture-specific antibiotic production in Bacilli
Wellesley College 2025	Elizabeth Shalik, ThD	Investigating antagonism and cocattare-specific antibiotic production in Bactiti
Camryn L. Foster, SURE	Lee J. Quinton, PhD	Developing an In vitro model for lung-liver communication preceding pneumonia
Colgate University 2025		Developing an in vito model for rang river commanceation preceding preamonia
Sammy D. Gómez Medina, NIH	Jie Song, PhD	Micrococcal Nuclease Triggered On-demand Release of Ampicillin for Staphylococcus
University of Puerto Rico Piedras 2024		aureus-associated Titanium Implant Infection Prevention- Abstract
Adrián E. González Santiago, NIH	Michael Brodsky, PhD	Reduction of Short Tandem Repeat sequences using Paired Crispr-Cas9 Nickases
University of Puerto Rico Cayey 2024	57	<i>y 1 1 0 1</i>
Emma S. Hayes, NIH	Javier Irazoqui, PhD	Optimization of Fluorescence and Survival of C. elegans in S. aureus Strain USA300: A
Massachusetts College of Pharmacy and Health Science 2024		Platform for High Throughput Screening
Mara Keahilani Hon, SURE	Jeffrey Nickerson, PhD	Exploring the LINC Complex's role in nuclear structure and gene expression by confocal
Columbia University 2025		microscopy and CUT&Tag epigenomic profiling
Theodore Hsiao, SURE	Andrea Roboldi, PhD	IgA+ B cells preferentially upregulate gut homing receptors a4b7 and CCR9
University of Maryland College Park 2025		
Kyle Hur, NIH	Gang Han, PhD	Optimizing the superfluorescent properties of room-temperature nanoparticles
Amherst College 2025		
Mohamed A. Ibrahim, NIH	Francesca Massi, PhD	Exploring The Impact Of Site-Specific Labeling Techniques on the Structure and Func?on
Thomas Jefferson University 2025		of Profilin-1
Bogdan Ivanov, SURE	Kuang Shen, PhD	Investigating the Interactions between JIP3 and Kinesin using Cryo-EM
Pennsylvania State University 2024		
Racheal K. Lefevre, NIH	Lucio Castilla, PhD	Determining The Mechanism By Which Nanoparticles Enter Into Leukemic Cells
Fitchburg State University 2023		
Melina Lian, NIH	Robert C. Brewster, PhD	Characterizing TF Function on σ 28 Promoters of Titratable Strengths
University of Southern California 2025		

Karina J. Magnus, NIH	Zaida Ramirez, PhD	Analyzing Scarf1 Expression Levels in Relation to SLE-like Disease Progression in Mouse
Columbia University 2024		Models
Adrián Márquez Hernández, NIH	Mary Munson, PhD	Elucidating VPS45 binding interactions and the competition between associated proteins
University of Puerto Rico Cayey 2024		
Ana G. Marroquin Tercero, NIH	Ryan W. Logan, PhD	Validating a transgenic mouse line designed for cell type-specific knockdown of the
California State Polytechnic University, Pomona 2024		circadian transcription factor Npas2
Patricia I. Morales-Iglasias, NIH	Anthony Imbalzano, PhD	Peptidyl arginine deiminase (Padi) enzymes regulate the skeletal muscle differentiation
University of Puerto Rico Rio Piedras 2024		through canonical BAF complex
Ndongwa Pemba, NIH	Milka Koupenova, PhD	Antiviral Changes in Megakaryocytes: RIG-I vs TLR7
Agnes Scott College 2025		
David S. Pilson, NIH	Jillian M. Richmond, PhD	A novel mouse model of Cutaneous Lupus Erythematosus generates Anti-Nuclear
Morehouse College 2025		Antibodies
Nicolle Rodriguez, NIH	Stuart Levitz, PhD & Charles Specht, MD	Exploring pathogenic potency: Comparative analysis of clinical Cryptococcus strains
Dominican University 2024		
Sarah F. Rodriguez, NIH	Marcus Ruscetti, PhD	Modification of SASP from Docetaxel-Induced Senescence by IFNB enhances therapeutic
University of Texas Austin 2024		efficacy
Rosmery Rosario Cueto, NIH	Ann M. Rothstein, PhD	Cell Specific Activation of TLR9 in DNase II Deficient Mice
Universidad del Este 2024		
Jonathan P. Schowalter, NIH	Michael J. Lee, PhD	Histone Deacetylase Inhibitor-Induced Lethality is Dependent on Acetate Availability
University of New Orleans 2025		
Raheem S. Sheikh, SURE	Joae Wu, PhD	The Role of Protein Arginine Methyltransferase 5 (PRMT5) in Non-Alcoholic Fatty Liver
CUNY Hunter College 2025		Disease (NAFLD)
Chelsey C. Southwell, SURE	Nikolaus Grigorieff, PhD	Exploring Cryo-EM Methods to Resolve the Rotavirus SLP Structure
Southwestern University 2024		
Varun Vardhan R. Tummalapalli, SURE	Jin Zhang, PhD	Characterizing the effects of stress on taste cells
University of Southern California 2025		
Julie A. Vazquez Almodovar, NIH	Chan Zhou, PhD	Transcriptomics analysis reveals novel long non-coding RNA in COVID-19 neurotropism
Inter American University of Puerto Rico San German 2025		
Catharine F. H. Wingle, NIH	Sumeda Nandadasa, PhD	Primary cilia are essential for umbilical cord smooth muscle cell differentiation and
Thomas Jefferson University 2024		elongation
Stanley S. Yuan, SURE	Marcus Ruscetti, PhD	Calcineurin increases cell cycle arrest duration in C. albicans
University of Texas Austin 2024		