

2024 Summer Undergraduate Research Program

Research Projects

Names	Topics of Research Projects
Chloe O. Abbott	<i>Targeted therapy for Pancreatic Adenocarcinoma: Unraveling the Mechanisms of Combined MRTX1133 and AZD2014</i>
Luke Abraham	<i>IgA Plasma Cells, More Than Just the Gut: Unexpected Splenic Niches</i>
Jake Bedard	<i>Gene Therapy for Atrial Fibrillation: The Impact of AdCain on Electrical Remodeling</i>
Evan G. Burke	<i>Testing the Ability of Sec9CT to be Expressed with the Cytiva™ Protein Select™ Tag</i>
Gabriela Cañizares Díaz	<i>TCre-lox Chromosome Engineering in Zebrafish: A New Approach for Modeling Down Syndrome</i>
Elaine A. Caternor	<i>RIG-I Elicits an Antiviral but not Prothrombotic Gene Response in Lung Endothelial Cells</i>
Debarghya Chaki	<i>PML Nuclear Body Targeting of Immune Regulator SP140</i>
James Durey	<i>Modifying Linker Length to Improve Prime Editing Outcomes</i>
Jalal Elsallal	<i>Mammalian Viral-Like Arc Capsid Interacts With & Traffics RNA Transcript Linked to Myotonic Dystrophy</i>
Angela Gervassi Saga	<i>Characterizing the functional impact of a somatic mutation found in ALS</i>
Paula Gibbons	<i>Bacterial Hyaluronidase-Mediated Antibiotic Release for Periprosthetic Joint Infections</i>
Hailie M. Goldthorpe	<i>Measuring Macrophage-Induced β-Cell Death Using in vitro Co-culture: Insights for Diabetes Pathogenesis</i>
Eleazar Gonzalez Adame	<i>GRADE: A Nove lApproach to Evaluating Chemotherapy Drug Interactions</i>
Samuel J. Lee	<i>A search for gold: Identification of MHC II epitopes in the protective cryptococcal vaccine proteins 4874 and Sod1</i>
Jiho Lim	<i>Conditional Loss of IFN-γ Signaling in Kupffer Cells Prevents Liver Insulin Resistance in Diet-Induced Obese Mice</i>
Junyue Ma	<i>Quantifying Lipid Droplets in Response to the Availability and de novo Biosynthesis of Cholesterol</i>
Anchal Mahajan	<i>Inhibition of Heat Shock Protein 90 Ameliorates Lipid Accumulation in Alcohol Associated Fatty Liver Disease</i>
Ana G. Marroquin Tercero	<i>Investigating molecular mechanisms of neuroprotection in C. elegans</i>
Thalia E. Mason	<i>Effect of Nidogen/nid-1 on Synaptic Remodeling in GABAergic Neurons</i>
Katherine M. Mitchell	<i>Harnessing SCARF1 Chimeric Receptors for Targeted Clearance of Apoptotic Cells</i>
Morelia Morel Diaz	<i>Characterizing the role of Interferon Gamma Signaling in Neuroendocrine Prostate Cancer</i>
Matthew P. Olivera II	<i>CXCR3 knock out T cells induce fewer antinuclear antibodies than WT T cells in murine cutaneous lupus erythematosus</i>
Bolanle Orioke	<i>Discovering Regulators of Hedgehog Pathway: E3 ligases that regulate Ptch1 Localization</i>
Chloe M. Renzi	<i>Understanding Differences in Ebola Virus Glycoprotein Infectivity Using Point Mutations and Flow Cytometry</i>
Juliet N. Utaegbulam	<i>Outcrossing a Background Mutation in a GFP-Tagged pos-1 Strain in C. elegans</i>
Grace O. VanEtten	<i>Regulation of the spindle pole body protein Cnm67 by cyclin dependent kinases</i>
Helen S. Varughese	<i>Uncovering the Inflammatory Mediators of PTHrP Driven Cancer Cachexia</i>
Judith Walker	<i>Exploring the Role of CD38 during Mycobacterium tuberculosis Infection</i>
Daniel M. Wunschel	<i>Identifying LAMTOR1 and LAMTOR4 in C. elegans</i>
Wesley Yuen	<i>Mapping Corticosterone Secretion and Glucocorticoid Receptor Localization in the Tongue</i>