Department of Physiology Open Labs 2023-24

PI	Accepting Students	Rotations	Research Blitz	Poster Session	Lab Descriptions
Bieberich, Erhard	Yes	1, 2, 3, 4	No	Yes	Lipid biochemistry, stem cell research, brain development, neurodegeneration
Blair, Cheavar	Yes	1, 2, 3, 4	Yes	Yes	Understanding the impact of cellular stress in the heart using Human Induced Stem Cell-Derived Cardiomyocytes, live-cell imaging, and CRISPR technologies
Campbell, Kenneth	Maybe	1, 2, 3, 4	Yes	Yes	Heart failure, computer modeling, and Biospecimens
Daugherty, Alan	Maybe	1, 2, 3, 4	Yes	Yes	Molecular Mechanisms of Human Vascular Diseases
Frolenkov, Gregory	Yes	1, 2, 4	Yes	Yes	Cellular and Molecular Mechanisms of Hearing
Fry, Christopher	Yes	1, 2, 3, 4	Yes	Yes	Regulation mechanisms of skeletal muscle plasticity
Gensel, John	Yes	1, 2, 3, 4	Yes	Yes	Neuroinflammation in Spinal Cord and Brain Injury
Graf, Gregory	Yes	1, 2, 3	Yes	Yes	Novel proteins and pathways that directly influence risk factors for metabolic diseases
Helsley, Nate	Yes	1, 2, 3, 4	Yes	Yes	How fatty acid metabolism impacts obesity, atherosclerosis, and chronic liver diseases
Hubbard, Brad	Yes	1, 2, 3, 4	Yes	Yes	Understanding the underlying mechanisms of and therapeutic strategies for traumatic brain injury
Johnson, Lance	Maybe	1, 2, 3, 4	Yes	Yes	ApoE, brain metabolism and cognition
Macauley, Shannon	Maybe	3, 4	Yes	Yes	How alterations in brain metabolism relate to sleep impairment, vascular dysfunction, and inflammation in Alzheimer's disease
Nikolova-Karakashian, Mariana	Maybe	1, 2, 3, 4	No	Yes	Role of Sphingolipid Signal Transduction Pathway in Animal Aging
Patel, Samir	Maybe	3, 4	No	Yes	Characterizing rodent model of sepsis survivor following spinal trauma and targeting mitochondrial dysfunction to treat spinal injury
Satin, Jonathan	Yes	1, 2, 3, 4	Yes	Yes	Heart function, heart remodeling and ion channels
Sheppard, Mary	Yes	3, 4	Yes	Yes	Cardiovascular, congenital aortopathies and arteriopathies
Spassieva, Stefanka	Yes	1, 2, 3, 4	No	Yes	Sphingolipid neurotoxicity, Chemotherapy-induced peripheral neuropathy
Velez-Ortega, A. Catalina	Yes	1, 2, 3, 4	Yes	Yes	Inner ear sensory organelles; cytoskeleton remodeling
Wen , Yuan	Maybe	3, 4	No	Yes	Ribosomes and translation in aging, Computation and bioinformatics, Single cell/nucleus and spatial sequencing
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