NRSA T32 Kirschstein Scholars
Featuring the Biology of Aging & Age-Related Diseases, Metabolism & Nutrition, Endocrinology & Reproductive Physiology, Molecular & Cellular Pharmacology Training Programs

January 26, 2022 1:00-4:00pm Join meeting
Zoom Meeting ID: 972 6358 1667 Meeting password: 246327

1:00pm – Welcome!

1:05 Aged mouse alpha-cells exhibit enhanced glucagon secretion in response to amino acids and GIP
Hannah Foster, PhD – Department of Medicine

1:20 Dietary Cholesterol-Induced Gut Microbes Drive Nonalcoholic Fatty Liver Disease Pathogenesis in a Murine Model
Jake Hermanson – Nutritional Sciences

1:25 A deep mutational scanning framework for defining protein function and variant pathogenicity
Andrew Sung – Biomolecular Chemistry

1:40 DiLeu-Enabled Quantitative Analysis of Sphingolipids for Biomarker Discovery in Alzheimer’s Disease
Jericha Mill – Chemistry

1:45 Roundabout Receptors Control Spatial Architecture of the Islets of Langerhans in Adult Mice
Bayley Waters – Cell and Regenerative Biology

2:00 Adiponectin receptor activation impacts skeletal muscle aging in mice
Katie Osterbauer – Nutritional Sciences

2:05 Metabolic benefits of dietary isoleucine restriction is blocked by rapamycin administration
Yang Yeh, PhD – Department of Medicine

2:20 The Impact of Aging on the Association between Aortic Stiffness and Cerebral Pulsatility Index
Brandon Fico, PhD – Kinesiology

2:25 15-Minute Break

2:40 Using zebrafish to explore lipid mediators of inflammation during infection and wound repair
Taylor Schoen – Medical Microbiology & Immunology

2:45 Nucleosomal activation and catalysis of SIRT6
Jose Moran – Biomolecular Chemistry

3:00 Hepatic Deletion Of FOXO1 Signaling Rescues the Metabolic Deficits Caused By mTORC2 Inhibition
Reji Babygirija – Department of Medicine

3:05 Cardiorespiratory fitness attenuates the deleterious effects of sleep apnea on cerebral structure, perfusion, and risk of Alzheimer’s disease in the Wisconsin Sleep Cohort study
Kyle Edmunds, PhD – Department of Medicine

3:20 Rapamycin delays bone-related hallmarks of age-related osteoarthritis in the common marmoset
Dennis Minton – Department of Medicine

3:25 Predicting Young Adults at High Risk for Weight Gain Using Machine Learning
Jacqueline A Murtha, MD – Department of Surgery

3:40 Anti-membrane and anti-spike antibodies together discriminate between past COVID-19 infection and vaccination
Maya Amjadi – Department of Medicine

3:45 Closing Remarks