

# MADISON SCHOLARS SYMPOSIUM PROGRAM

## **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**



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