

Program

7:45 am Light Breakfast

8:10 am Welcome, Opening Remarks

Daniel Ts'o, PhD, Associate Professor, Neurosurgery

8:15 am Afua Addo, Zhao Lab, Neurosurgery, *"Transcriptional Analysis of SCF+G-CSF-Treated APP/PS1 Mice Reveals New Immunomodulatory Mechanisms of Reduced Neuropathology"*

8:30 am Songruo Li, Zhao Lab, Neurosurgery *"Mechanistic Determination of Hematopoietic Growth Factor-Promoted Proliferation of Oligodendrocyte Progenitor Cells"*

8:45 am Nneka F. Onwumere, Zhao Lab, Neurosurgery *"Identification of Transcriptome Modification In CD11b+ Cells After SCF + G-CSF Treatment in Chronic Severe Traumatic Brain Injury"*

9:00 am Margaret Lovier, MPH, Zhao Lab, Neurosurgery, *"A Supportive Enriched Environment Improves Neurological Function Recovery of Chronic Severe TBI in a Murine Model"*

9:15 am Break

9:30 am Brandon Wilkinson, MD, Resident, Neurosurgery, *"Sarcopenia Predicts the Development of Early Adjacent Segment Disease Following Lumbar Interbody Fusion"*

9:45 am Alexander Braley, MD, Resident, Neurosurgery, *"Advancing Indications for Neurosurgical Intervention"*

10:00 am Mariano Viapiano, PhD, Neurosurgery, *"Targeting Scaffolding Proteins to Disrupt Radioresistance in Glioblastoma"*

10:15 am Daniel Tso, PhD, Neurosurgery, *"Short-term Monocular Deprivation: Shifts in Cortical Functional Connectivity"*

10:30 am Break

10:45 am William Zeiger, MD, PhD, Assistant Professor of Neurology, University of California, Los Angeles *"Mechanisms of Circuit Plasticity in the Healthy and Injured Somatosensory Cortex"*

11:45 am Break

11:55 am Bradley Lega, MD, Associate Professor of Neurological Surgery, UT Southwestern Medical Center *"Multimodal Characterization of Human Episodic Memory Circuits"*

12:55 pm Lunch Break

2:00 pm Ali Razavi, Student, Hess Lab, Neuroscience/Psychiatry, *"Unlocking Alzheimer's Disease Drug Repurposing Candidates Through Artificial Intelligence"*

2:15 pm Jaclyn Ritterhaus, Student, Hu Lab, Neuroscience, *"Evaluating the Mechanistic Linkage Between Retinitis Pigmentosa 25 and 76"*

2:30 pm Camille Chin, Student, Ganapathy Lab, Neuroscience/Ophthalmology, *"Investigating Mechanisms of Nuclear Mechanosensation in Optic Nerve Head Astrocytes"*

2:45 pm Break

3:00 pm Monica Vetter, PhD, Professor and Chair of Neurobiology, University of Utah *"Pathways for Generation and Elimination of Retinal Neurons"*

4:00 pm Closing Remarks