



8:30 – 9:00	Check-in/Breakfast
9:00 – 9:10	Welcome by J. Kevin Foskett, PhD
9:10 – 9:55	Morning Session I (Moderator: Elana Baltrusaitis)
9:10 – 9:25	Charlie Bond – <i>Multiplexed DNA-PAINT imaging of the heterogeneity of late endosome/lysosome protein composition</i>
9:25 – 9:40	Emily Scarborough – <i>Microtubules couple mRNA export, transport and local translation to direct growth in the cardiomyocyte</i>
9:40 – 9:55	Xuechen Shi – <i>Compression stiffening in adipose tissues</i>
9:55 – 10:55	Coffee Break + Poster Session I
11:00 – 12:00	Morning Session II (Moderator: Faviolla Baez-Cruz, PhD)
11:00 – 11:15	Nicholas Palmer – <i>Mechanisms of actin filament severing and elongation by formins</i>
11:15 – 11:30	Brice Magne – <i>Role of ciliopathy-associated protein TMEM138 in skin pigmentation</i>
11:30 – 11:45	Julia Riley – <i>Mitochondrial damage in astrocytes triggers PINK1/Parkin mitophagy and NF-κB-mediated inflammation</i>
11:45 – 12:00	Bob Cail – <i>Cardiac myosin with Hypertrophic Cardiomyopathy mutation M493I alters motor kinetics and SRX equilibrium but preserves the working stroke</i>
12:00 – 1:00	Lunch
1:00 – 1:45	Afternoon Session (Moderator: Tania Perez)
1:00 – 1:15	Wencao Zhao – <i>NAD⁺ metabolism in endothelial cells prevents ROS accumulation specifically during the transition from proliferation to quiescence and is essential for angiogenesis</i>
1:15 – 1:30	Kayleigh Voos – <i>A novel cytoskeleton-based pathway required for maintenance of mitochondria dynamics and energetics in skeletal muscle</i>
1:30 – 1:45	Jennifer Petrosino – <i>Active transport of tRNAs facilitates distributed protein synthesis in terminally differentiated cells</i>
1:45 – 1:55	Physiology Department Picture (front steps of the Franklin Institute)
1:55 – 2:55	Coffee Break + Poster Session II
3:00 – 3:45	Keynote: Christopher Burd, PhD <i>Cell Physiology Through the Lens of Membrane Lipid Homeostasis</i>
3:45 – 4:00	Closing