# MONDAY | November 6, 2023

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| **8:00–8:45 a.m.** | **Breakfast/Registration** |
| **8:45–9:00 a.m.** | **Welcome & Introduction**<br>Co-Chairs: Sruti Shiva, PhD, Brett Kaufman, PhD (University of Pittsburgh) |
| **9:00–9:45 a.m.** | **Keynote Speaker:** Babak Razani, MD, PhD (University of Pittsburgh)<br>Lysosome Nutrient Sensing in Macrophages: A Critical Nexus in the Pathophysiology of Atherosclerosis |
| **9:45–10:00 a.m.** | **BREAK** |
| **10:00–11:45 a.m.** | **Symposium 1: Mitochondria/Metabolism in Aging**<br>Chairs: Toren Finkel, MD, PhD (University of Pittsburgh)<br>Edward V. Prochownik, MD, PhD (University of Pittsburgh) |
| **10:00–10:25 a.m.** | Joseph A. Baur, PhD (University of Pennsylvania)<br>Manipulating mitochondrial NAD+ in hepatocytes |
| **10:25–10:50 a.m.** | Aditi Gurkar, PhD (University of Pittsburgh)<br>Acetyl-CoA: A regulator of DNA damage-induced senescence and aging |
| **10:50–11:15 a.m.** | Julia Liu, PhD (University of Minnesota)<br>Mitochondrial calcium in the heart's two ventricles |
| **11:15–11:45 a.m.** | **Selected Abstracts:** Tyler Stevens, PhD (Temple University), Evaluating the contribution of MICU3 towards the pathology of Alzheimer's Disease; and Devika Manickam, PhD (Duquesne University), Microvesicles deliver their innate mitochondria and protect the BBB post-stroke |
| **11:45 a.m.–noon** | **Overview of UMDF Initiatives**<br>Philip Yeske, PhD, Science and Alliance Officer |
| **12:00–1:30 p.m.** | **LUNCH, NETWORKING TIME** |
| **1:30–3:25 p.m.** | **Symposium 2: Mitochondrial Disease & Metabolic Disorders**<br>Chairs: Deborah Murdock, PhD (Children's Hospital of Philadelphia), Gerard Vockley, MD, PhD (University of Pittsburgh) |
| **1:30–1:55 p.m.** | Martin Picard, PhD (Columbia University)<br>The energetic cost of living with an OxPhos defect |
| **1:55–2:20 p.m.** | Marni Falk, MD (Children's Hospital of Philadelphia)<br>Precision Mitochondrial Medicine—novel therapeutic candidates and development trajectories |
| **2:20–2:45 p.m.** | Eric Goetzman, PhD (University of Pittsburgh)<br>Dodecanedioic Acid as an Alternative Medium-chain Metabolic Fuel |
| **2:45–3:10 p.m.** | Alessia Angelin, PhD (Children's Hospital of Philadelphia)<br>AAV-mediated transduction of the nuclear-coded mitochondrial ANT1 gene can ameliorate mouse Ant1-/- pathology: A step toward the treatment of mitochondrial cardiomyopathy |

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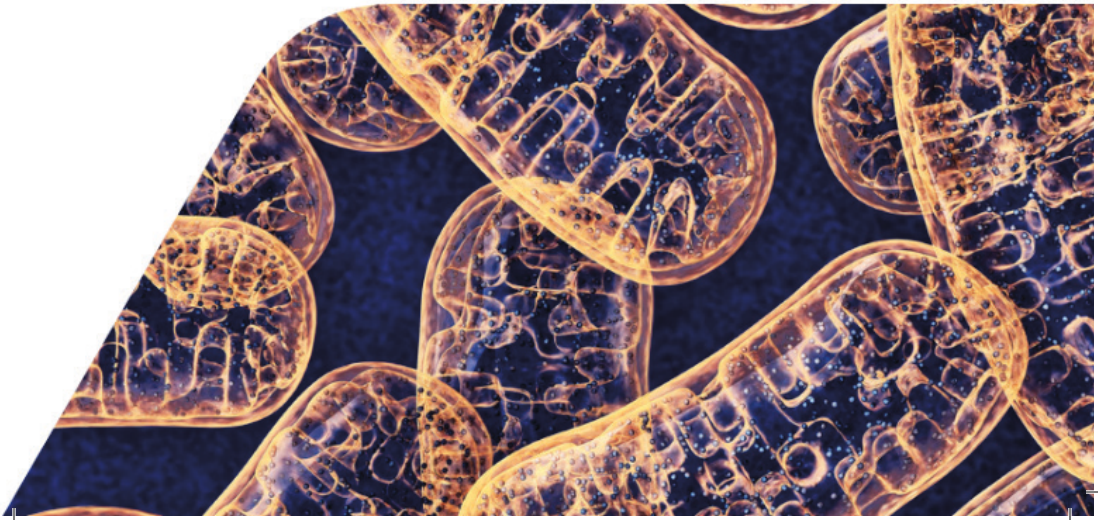
| **3:10–3:25 p.m.** | **Selected Abstract:** Shakuntala Basu, PhD (University of Pittsburgh), A novel mouse model for VLCAD deficiency and first report of VLCAD gene therapy |
| **3:25–3:40 p.m.** | **BREAK** |
| **3:40–5:20 p.m.** | **Symposium 3: Immunometabolism**<br>Chairs: Partha Dutta, DVM, PhD (University of Pittsburgh), Xiangyu Zhang, PhD (University of Pittsburgh) |
| **3:40–4:05 p.m.** | Stanley Huang, PhD (Ohio State University)<br>Stress Sensing and Metabolic Circuits in Tumor Macrophages |
| **4:05–4:30 p.m.** | Greg M. Delgoffe, PhD (University of Pittsburgh)<br>Mitochondrial insufficiency underlies T cell dysfunction in cancer |
| **4:30–4:55 p.m.** | David A. Hill, MD, PhD (Children's Hospital of Philadelphia)<br>Dietary fatty acids alter innate lung inflammation |
| **4:55–5:20 p.m.** | Will Bailis, PhD (University of Pennsylvania)<br>Single-cell NAD(H) variation underlies lymphocyte heterogeneity and governs clonal expansion dynamics |
| **5:20–5:30 p.m.** | **Poster Pitches from Young Investigators, Sponsor:** Regeneron<br>Presenters: Oluwaseun Akinyele, PhD (University of Pittsburgh), Justin Sui (University of Pittsburgh), Zaineb Javed (Penn State University), Lily Farmerie (University of Pittsburgh), Chidozie Okoye, PhD (University of Rochester) |
| **5:30–7:00 p.m.** | **Poster Session Sponsored by Regeneron** |



## TUESDAY | November 7, 2023

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| **7:30–8:00 a.m.** | **Breakfast** |
| **8:00–9:55 a.m.** | **Symposium 4: Mito Quality Control & Organization**<br>Chairs: Charleen T. Chu, MD, PhD (University of Pittsburgh), Michael J. Jurczak, PhD (University of Pittsburgh) |
| **8:00–8:25 a.m.** | Shiori Sekine, (University of Pittsburgh)<br>Mitochondrial Import-Coupled Stress Response—A fine system to signal from mitochondria to the cytosol |
| **8:25–8:50 a.m.** | Brian Glancy, PhD (National Institute of Health) |
| **8:50–9:15 a.m.** | Nuo Sun, PhD (Ohio State University)<br>Targeting mitophagy to fight aging |
| **9:15–9:40 a.m.** | Xin Qi, PhD (Case Western Reserve University)<br>Regulation of mitochondrial proteostasis in alpha-synucleinopathy |
| **9:40–9:55 a.m.** | Selected Abstract: Shey-Shing Sheu, PhD (Thomas Jefferson University), Spin transition induced by low magnetic fields stimulates cardiac mitochondrial respiration with a bell-shaped response |
| **9:55–10:10 a.m.** | **BREAK** |
| **10:10 a.m.–noon** | **Symposium 5: Cardiac Metabolism**<br>Chairs: Iain Scott, PhD (University of Pittsburgh), Janet Manning, PhD (University of Pittsburgh) |
| **10:10–10:35 a.m.** | Joanne Garbincius, PhD (Temple University)<br>Discovery of TMEM65 as a Positive Regulator of Mitochondrial Calcium Efflux |
| **10:35–11:00 a.m.** | E. Douglas Lewandowski, PhD (Ohio State University)<br>Bypassing Reduced Long Chain Fatty Acid Oxidation in Failing Hearts with Short Chain Substrates |
| **11:00–11:25 a.m.** | Bradford G. Hill, PhD (University of Louisville) |
| **11:25 a.m.–12:05 p.m.** | Selected Abstracts: Joseph Guarnieri, PhD (Children's Hospital of Philadelphia), Core mitochondrial genes are down-regulated during SARS-CoV-2 infection of rodent and human hosts; and Nelli Mnatsakanyan, PhD (Penn State University), Cryo-electron microscopy studies reveal the inactivation mechanism of ATP synthase leak channel and its contribution to mitochondrial permeability transition |
| **12:05–1:15 p.m.** | **LUNCH, NETWORKING TIME** |
| **1:15–2:40 p.m.** | **Symposium 6: Redox Biology & Metabolism**<br>Chairs: Sruti Shiva, PhD (Pitt), Brett Kaufman, PhD (University of Pittsburgh) |
| **1:15–1:40 p.m.** | Nuno Raimundo, PhD (Penn State University)<br>Mitochondria-lysosome crosstalk: touch me, don't touch me, just be sweet |
| **1:40–2:15 p.m.** | Andrew P. Wojtovich, PhD (University of Rochester)<br>Controlling mitochondrial ROS production with light |
| **2:15–2:45 p.m.** | Nadine Hemple, PhD (University of Pittsburgh)<br>Consequences of Drp1 splice variant expression in cancer |
| **2:45–3:00 p.m.** | **Closing Remarks** |