Thursday, October 5, 2017

8:00am  Breakfast & Registration University Club Ballroom B

8:30am  Welcome Opening remarks
Steven  D. Shapiro, MD, Executive Vice President, Chief Medical and Scientific Officer, President, Health Services Division
Arthur  S. Levine, MD, Senior Vice Chancellor for the Health Sciences,
John and Gertrude Petersen Dean, School of Medicine
Sruti  Shiva, PhD, Co-Organizer
Ben Van Houten, PhD, Co-Organizer

8:45am–9:45am  KEYNOTE Lecture – Toren Finkel, MD, PhD, Professor of Medicine, Cardiology Director of the Aging Institute (UPitt) – “Mitochondria, metabolism and aging”

10:00am–12:15pm  SYMPOSIUM 1: NEURODEGENERATION
Session Chair: Ed Burton, MD PhD (UPitt)

10:00am–10:25am  Sarah Berman, MD, PhD (UPitt) – “Mitochondrial dynamics in Parkinson’s disease”

10:25am–10:50am  Martin Picard, PhD (Columbia U) – "Oncogenic spread of mutant mtDNA intracellularly in mitochondrial disease and aging"

10:50am–11:15am  Andrew Wojtovich, PhD (U of Rochester) – “Optogenetic control of mitochondrial ROS microdomains”

11:15am–11:40am  Ed Burton, MD, PhD (UPitt) – “Interactions between α-synuclein and mitochondria in Parkinson’s disease”

11:40am–12:05pm  Patty Opresko, PhD (UPitt) – “A new tool for examining crosstalk between telomere and mitochondrial dysfunction”

12:05pm–12:25pm  Kevin Bittman, PhD (Seahorse/Agilent) – “The Agilent Seahorse XF analyzer advances the study of metabolism”

12:30pm–2:00pm  LUNCH / POSTERS / NETWORKING TIME

2:00pm–4:15pm  SYMPOSIUM 2: LIPID METABOLISM
Session Chair: Eric Goetzman, PhD (UPitt)

2:00pm–2:25pm  Eric Goetzman, PhD (UPitt) – “Sirt5 and peroxisomal fatty acid oxidation during acute kidney injury”
2:25pm–2:50pm  Ed Prochownik, PhD (UPitt) – “Efficient Normal and Neoplastic Proliferation After Genetic Dissociation of Glycolysis and the TCA Cycle”.

2:50pm–3:15pm  Donna Korzick, PhD (Penn State) – “Programmed Necrosis and the Aged Female Heart: Estrogen and Innate Immunity”

3:15pm–3:25pm  Abstract Talk: Dhanendra Tomar, PhD (Temple) – “Mitochondrial calcium uniporter controls AMPK activity and lipid metabolism”

3:25pm–3:50pm  Joe Baur, PhD (UPenn) – “Mitochondrial NAD metabolism”

3:50pm–4:15pm  Haiming Cao, PhD (NHLBI/NIH) – “Regulation of Metabolic Homeostasis by Long Non–coding RNAs”.

4:15pm–4:30pm  COFFEE BREAK

4:30pm–6:15pm  SYMPOSIUM 3: IMMUNOLOGY & INFECTION
Session Chair: Robert O’Doherty, PhD(UPitt)

4:30pm–4:55pm  Greg Delgoffe, PhD (UPitt) – “Mitochondria as key immunometabolic contributors to the avoidance of T cell exhaustion in cancer”

4:55pm–5:20pm  Anuradha Ray, PhD (UPitt) – “Mitochondrial control of airway immune tolerance”

5:20pm–5:45pm  Madhusudhan Sukumar, PhD (NIH/NCI) – “Metabolic reprogramming of anti-tumor immunity”

5:45pm–6:15pm  Abstract Talk: Elizabeth Novak, PhD (UPitt) – “NAD depletion in the intestinal epithelial results in mitochondrial dysfunction and influences the pathogenesis of experimental colitis”

Abstract Talk: Peter McGuire, PhD (NHGRI) – “Cytochrome c oxidase activity is a metabolic checkpoint during cell activation with heterogeneous consequences in effector T–cells”

Abstract Talk: Tal Yardeni, PhD (Children’s Hospital of Philadelphia) – “Communicating with your ancestors: mitochondrial influence on the microbiome”

6:15pm–8:00pm  POSTER SESSION

6:15pm–7:00pm  Odd Numbers
7:00pm–7:45pm  Even Numbers

Music by the Kassia Ensemble
Hors d’oeuvres and Drinks
7:45am Breakfast University Club Ballroom B

8:15am–10:15am SYMPOSIUM 4: MODEL ORGANISMS, MITOCHONDRIAL SIGNALING, PROTEOMICS, and METABOLOMICS
   Session Chair: Nam Vo, PhD(UPitt)

8:15am–8:40am Aditi Gurkur, PhD (UPitt) – “DNA damage induced nuclear–mitochondrial communication in aging”
8:40am–9:05am Iain Scott, PhD (UPitt) – “Mitochondrial Acetylation and Regulation of Metabolism”
9:05am–9:30am Arjumand Ghazi, PhD (UPitt) – “Balancing Lipogenesis and Lipolysis for Longevity”
9:30am–9:55am Erin Seifert, PhD (Jefferson) – “Adaptive and maladaptive responses to depletion of the mitochondrial phosphate carrier”
9:55am–10:15am Abstract Talk: Gary Thomas, PhD (UPitt) – “Allosteric Modulation of SIRT1 by PACS–2 and DBC1 regulatory hub”

10:15am–10:45am COFFEE BREAK

10:45am–12:45pm SYMPOSIUM 5: MITOCHONDRIA, DNA, and METABOLISM
   Session Chair: Fabrisia Ambrosio, PhD, MPT(UPitt)

10:45am–11:10am Michael Palladino, PhD (UPitt) – “Developing novel treatments for mitochondrial disease”
11:10am–11:35am Brett Kaufman, PhD (UPitt) – “G-quadruplexes structures cause mitochondrial dysfunction”
11:35am–12:00pm Yusuke Sekine, PhD (NIH/NHLBI) – “CRISPR based approaches to understand metabolism”
12:00pm–12:20pm Kateryna Makova, PhD (Penn State) – “Transmission of Mitochondrial DNA Heteroplasmies Across Multi–Generation Pedigrees”
12:20pm–12:40pm Abstract Talk: Paul Brookes, PhD (U of Rochester) – “Direct stimulation of glycolysis accounts for cellular metabolic benefits of the NAD+ precursor nicotinamide mononucleotide (NMN)”

12:45pm–2:00pm LUNCH / POSTERS / NETWORKING TIME
2:00pm–4:00pm  **SYMPOSIUM 6: MITOCHONDRIAL DYNAMICS & QUALITY CONTROL**  
Session Chair: Paul Brookes, PhD (URochester)

2:00pm–2:25pm  **Charleen Chu**, MD, PhD (UPitt) – "Mitochondrial calcium dysregulation in neurodegeneration"

2:25pm–2:50pm  **Michael Jurczak**, PhD (UPitt) – "Divergent metabolic phenotypes in germline and conditional PARK2 knockout mice"

2:50pm–3:15pm  **John Elrod**, PhD (Temple) – "Mitochondrial Calcium Signaling in Bioenergetics and Fibroblast Transdifferentiation"

3:15pm–3:40pm  **Cynthia McMurray**, PhD (Lawrence Berkeley National Lab) – "Region–specific neuronal toxicity the HdHQ(150/150) mice arises by metabolic compensation for a complex II defect in astroglial cells"

3:40pm–4:00pm  **Abstract Talk: Brian Martin**, BS (UPitt) – "Relaxin reverses age induced inflammation with distinct sex differences"

Abstract Talk: **Frederic Jean–Alphonse**, PhD (UPitt) – "Dual role of mitochondria in producing melatonin and driving GPCR signaling to block cytochrome c release"

4:00pm–4:15pm  BREAK

4:30pm–5:30pm  **KEYNOTE Lecture**–  **Raul Mostoslavsky**, MD, PhD (Harvard Medical School) – "Linking Metabolism to Epigenetics and Cancer: SIRT6 provides new clues"

5:45pm  Meeting close: dinner on your own