

Jan Hoek, Thomas Jefferson University, Subgroup Co-Chair
György Hajnóczky, Thomas Jefferson University, Subgroup Co-Chair

Bioenergetics Subgroup 2015 Symposium

Saturday, February 7, 2015

Baltimore, Maryland

Room 314/ 315

Morning Symposium: The Mitochondrial Genome

Program Chair: Brett Kaufman, University of Pennsylvania

- 9:00 AM Carlos Moraes, University of Miami
Selective Targeting of MtDNA Sequences and Applications to Therapy
- 9:30 AM Craig Cameron, Pennsylvania State University
New Paradigms for Regulation of Human Mitochondrial Transcription
- 10:00 AM Phillip West, Yale University
Mitochondrial DNA Stress Primes the Antiviral Innate Immune Response
- 10:30 AM Coffee Break
- 11:00 AM Yves Pommier, NIH
MtDNA Topoisomerases
- 11:30 AM Brett Kaufman, University of Pennsylvania
New Insights into the Causes of Mitochondrial Genome Instability

Afternoon Symposium: Mitochondrial Outer Membrane Transport Systems: Structure, Properties, and Physiological Implications

Program Chairs: Marco Colombini, University of Maryland; John J. Lemasters, Medical University of South Carolina

- 1:45 PM Presentation of the Young Bioenergeticist Award
- 2:00 PM Shelagh Ferguson-Miller, Michigan State University
High Resolution Crystal Structures of Translocator Protein 18 kDa (TSPO) Reveal Ligand Binding Sites and Effects of a Human Single Polymorphism
- 2:30 PM Vassilios Papadopoulos, McGill University, Canada
Translocator Protein in Mitochondrial Cholesterol Transport and the Pharmacology of Steroidogenesis
- 3:00 PM Michelangelo Campanella, University of London, United Kingdom
TSPO is a VDAC1 dependent pathway to modulate mitochondrial quality control and Ca²⁺ signalling
- 3:30 PM Coffee Break
- 4:00 PM Jeff Abramson, University of California, Los Angeles
Structure-guided Simulations Illuminate the Mechanism of ATP Transport Through VDAC1

4:30 PM John J. Lemasters, Medical University of South Carolina
VDAC and Regulation of Mitochondrial Metabolism

5:00 PM General Discussion

5:15 PM Subgroup Business Meeting

7:00 PM Subgroup Dinner