

Program

Mitochondria: balancing health and disease

Kennedy Lecture Theatre,
Institute of Child Health, Guildford Street, London
June 14, 2016
In association with Abcam

Chaired by:

Michael Duchen and Gyorgy Szabadkai (University College London, UK)

Tuesday, June 14

08:30 – 09:20 Registration and coffee

09:20 – 09:30 Opening statement

Session 1 Chair: Gyorgy Szabadkai

Opening guest lecture:

09:30 – 10:15 Ian Holt (The Francis Crick Institute, UK)

Mitochondrial DNA replication: In search of lost RNA

10:15 – 10:45 Jorge Oliveira (University of Porto, Portugal)

Mitochondrial dynamics and autophagy as therapeutic targets in Huntington's disease

10:45 – 11:15 Marija Sajic (University College London, UK)

In vivo imaging of mitochondria in PNS axons – new insights into the role of mitochondrial dynamics and function in physiology and disease

11:15 – 11:45 Break

11:45 – 11:55 Abcam

Session 2 Chair: Shamima Rahman

11:55 – 12:25 Buzz Baum (University College London, UK)

Mitochondria and the evolution of eukaryotic cell division

12:25 – 12:40 Joanna Poulton (University of Oxford, UK)

Dysregulated mitophagy and mitochondrial transport in “Dominant Optic Atrophy” due to OPA1 (Optic Atrophy 1) mutations

- 12:40 – 12:55 Danilo Faccenda (The Royal Veterinary College London, UK)
The ATPase inhibitory factor 1 prevents the pro-apoptotic processing of OPA1 via an ATP-driven mechanism of ROS scavenging
- 12:55 – 13:10 Payam Gammage (MRC Mitochondrial Biology Unit, Cambridge, UK)
Towards treatment of mitochondrial DNA disorders with engineered nuclease technologies
- 13:10 – 14:00 Lunch
- Session 3 Chair: Christos Chinopoulos**
- 14:00 – 14:30 Tariq Enver (University College London Cancer Institute, UK)
Extrinsic transcriptional noise and cell heterogeneity in stem cells
- 14:30 – 15:00 Giuseppe Gasparre (University of Bologna, Italy)
Mitochondrial DNA mutations in cancer: the oncojanus effect
- 15:00 – 15:15 Shamima Rahman (Institute of Child Health, London, UK)
Signal transducer and activator of transcription 2 (STAT2) deficiency is a novel disorder of mitochondrial fission
- 15:15 – 15:30 Brent Ryan (University of Oxford, UK)
Mitochondrial dysfunction in models of Parkinson's disease
- 15:30 – 16:30 Break
- Session 4 Chair: Michael Duchon**
- Closing guest lecture:**
- 16:30 – 17:15 David Rubinsztein (University of Cambridge, UK)
Autophagy and other pathways that protect against Neurodegeneration
- 17:15 – 18:15 Poster session and drinks reception