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 Duchen

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