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Young Mito Investigator Symposium

Mitochondria in life, death and disease

September 15th–17th

PROGRAM

Wednesday, 15th September 2021

13.00 – 13.15 Opening remarks
Nora Voegtle

Session 1: Mitochondrial protein import and biogenesis

Chair: Daiana Moretti

13.15 – 13.30 Vinzent Schulz
Human mitochondrial ferredoxins 1 and 2 perform different biosynthetic functions

13.30 – 13.45 Ana Kalichava
Ultrastructure expansion microscopy in Trypanosoma brucei

13.45 – 14.00 Yury Bykov
Mitochondrial ribosomal proteins developed unconventional mitochondrial targeting signals due to structural constraints

14.00 – 14.15 Ana Sierra
Structural heterogeneity of the respiratory chain ensures optimal OXPHOS performance

14.15 – 14.45 Coffee break

Chair: Maria Gomez-Fabra Gala

14.45 – 15.00 Christin Albus
Investigating sub-mitochondrial localisation of translation machinery components

15.00 – 15.15 Meichel Herrade
Peculiar post-transcriptional modification of Chlamydomonas reinhardtii mitochondrial mRNAs

15.15 – 15.30 Ross Eaglesfield
Unconventional protein import pathways for dually localised proteins present in the intermembrane space

15.30 – 16.00 Coffee break

Session 2: Mitochondria in infection, inflammation and immunity

Chair: Matthijs Hermeling

16.00 – 16.15 Manuel M. Gomez de las Heras
Mitochondrial T cell dysfunction accelerates intestinal ageing

16.15 – 16.30 Hanna Salmonowicz
Sub-lethal apoptotic stress enables mtDNA release and drives the senescence-associated secretory phenotype

16.30 – 16.45 Andreas Jenner
Direct interaction with DRP1 activates BAX and induces apoptosis

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Session 3 (continued): Mitochondrial dynamics and quality control

Chair: Harshita Kaul

- 13.00 – 13.15 Caroline Dewar
*Deciphering the mitochondrial quality control mechanism in the parasite *Trypanosoma brucei**
- 13.15 – 13.30 Minji Kim
Maintenance of proteostasis by mitochondrial stress response
- 13.30 – 13.45 Jessica Spinelli
Leveraging mass spectrometry to uncover mitochondrial adaptations to hypoxia exposure

13.45 – 14.15 Coffee break

Session 4: Mitochondria in metabolic signalling and control of metabolism

Chair: Soni Deshawal

- 14.15 – 14.30 Vasiliki Mavridou
Mapping the substrate binding site of the mitochondrial ADP/ATP carrier
- 14.30 – 14.45 Chrysanthi Moschandrea
Mitochondrial OXPHOS regulates dietary lipid transport in enterocytes
- 14.45 – 15.00 Michela Carraro
F-ATP synthase mutagenesis and its implication on formation and regulation of the permeability transition pore
- 15.00 – 15.15 Greg McElroy
Reduced expression of mitochondrial complex I subunit NDUFS2 does not impact healthspan in mice

15.15 – 15.45 Coffee break

Chair: Hien Rozsivalova

- 15.45 – 16.00 Corvin Walter
Global kinome profiling reveals DYRK1A as critical activator of the human mitochondrial import machinery
- 16.00 – 16.15 Bruna Garcia Martins
A role for mitochondria in the regulation of cholesterol biosynthesis
- 16.15 – 16.30 Yilin Kang
Mutant mitochondrial DNA polymerase impairs acute antiviral immunity
- 16.30 – 16.45 Closing remarks
Aleksandra Trifunovic