

MitOX 2022 April 8th

- 9.00 Karl Morten (Oxford) Welcome
- 9.05 **Mitochondrial DNA, expression and recombination: Chair Jo Poulton (Oxford)**
- 9.05 Dan Mishmar (Israel) The impact of mitochondrial gene expression regulation, and its coordination with the nucleus, on disease
- 9.30 Ana Victoria Lechuga-Vieco (Oxford) Mitochondrial heterogeneity: friend or foe?
- 9.55 Yizhou Yu (Cambridge) Parp mutations protect from mitochondrial toxicity in Alzheimer's disease
- 10.10 Hansong Ma (Cambridge) Mitochondrial recombination reveals genetic interactions that modulate the phenotypic expression of pathogenic mtDNA mutants
- 10.35 **Coffee**
- 11.00 **Cancer: Chair Rhiannon McGeehan (Portsmouth)**
- 11.00 Payam Gammage (Glasgow) The impact of cancer-associated mtDNA mutations on tumour metabolism and the microenvironment
- 11.25 Markus Ralser (The Crick) The metabolic growth limitations of petite cells lacking the mitochondrial genome
- 11.50 Nuno Santos Leal (Cambridge) Contacts between mitochondria and the endoplasmic reticulum protect from mitochondrial toxicity by activating the PERK/ATF4 branch of ER stress
- 12.05 Mike Duchen (UCL) Rewiring cell signalling pathways in pathogenic mtDNA mutations
- 12.30 Sponsors Talks BMG Labtech, Promega, Agilent, Atlantic imaging
- 13.00 **Lunch & Poster session I**
- 14.00 Katharina Schlacher (Texas) BRCA/FANC tumor suppressor roles in mitochondrial genome instability and inflammation.
- 1425 Mitophagy and Dynamics: Chair Tom Nichol (Oxford)**
- 14.25 Pollard Lecture William Mair (Harvard) Metabolic Flexibility, Mitochondrial Dynamics & Healthy Aging
- 15.05 Brent Ryan (Oxford) Integrating animal and cellular models to understand mitochondrial dysfunction in Parkinson's disease
- 15.20 Tea & Poster Session II**
- 16.00 **Mitochondrial medicine: Chair Kerstin Timm (Oxford)**
- 16.00 Leanne Hodson (Oxford) Tracing fat to determine factors influencing mitochondrial fatty acid oxidation in human
- 16.25 Lisa Heather (Oxford) Diabetic cardiac mitochondria are resistant to the regulation of respiration by lipid intermediates

16.50 Robin Klemm (Oxford) Mechanisms controlling de novo lipogenesis based lipid droplet expansion during adipocyte differentiation”

17.15 Isabella Panfoli (Genova) The polyphenol Cirsiliol prevents the light-induced oxidative damage of the retinal rod outer segment in vitro

17.30 Close Poster prizes

Drinks at the White Hart Headington