

Mitochondrial Medicine 2018

Wellcome Genome Campus
Hinxton, Cambridge, UK

9-11 May 2018

Draft Conference Programme

Wednesday 9th May 2018

- 11:30-12:50 **Registration with Lunch**
Wellcome Genome Campus Conference Centre
- 12:50-13:00 **Welcome and Introductions**
Francis Crick Auditorium
Patrick Chinnery
University of Cambridge, UK
- 13:00-14:30 **Session 1: Precision diagnostics and new clinical biomarkers**
Chair: Patrick Chinnery, University of Cambridge, UK
- 13:00 Defining mitochondrial protein function through systems
biochemistry
David Pagliarini
University of Wisconsin-Madison, USA
- 13:30 Integrated 'omics
Holger Prokisch
Institute of Human Genetics, Germany
- 14:00 Selected talk
- 14:15 Selected talk
- 14:30-14:45 **Session Discussion**
- 14:45 15:00 **Afternoon Tea**

15:00-16:30	<p>Session 2: What determines the phenotype of mitochondrial diseases? <i>Chair: Jan Smeitink, Radboud UMC, The Netherlands</i></p> <p>15:00 Mitochondrial diseases - pathophysiology beyond the organelle <i>Anu Suomalainen</i> <i>University of Helsinki, Finland</i></p> <p>15:30 Post-transcriptional regulation of mitochondrial metabolism during stress <i>Elena Rugarli</i> <i>University of Cologne, Germany</i></p> <p>16:00 Selected talk</p> <p>16:15 Selected talk</p>
16:30-16:45	Session Discussion
16:45 – 17:30	Lightening Talks (1 minute per poster – odd number only)
17:30-18:45	Poster Session I (odd numbers) with drinks reception
19:00 prompt	<p>Dinner <i>Hinxton Hall Restaurant</i></p>
19:00-23:00	<p>Cash Bar <i>Wellcome Genome Campus Conference Centre</i></p>

Thursday 10th May 2018

07:30-09:00	<p>Breakfast <i>Hinxton Hall Restaurant</i></p>
09:00-10:30	<p>Session 3: Autophagy-mitophagy: is it important for mitochondrial disease? <i>Chair: Massimo Zeviani, MRC Mitochondrial Biology Unit, UK</i></p> <p>09:00 Using small molecule modulators for protein import to regulate mitophagy <i>Carla Koehler</i> <i>UCLA, USA</i></p> <p>09.30 Resolving the pervasive nature of mammalian mitophagy <i>Ian Ganley</i> <i>University of Dundee, UK</i></p> <p>10:00 Selected talk</p>

	10:15 Selected talk
10:30 – 10:45	Session Discussion
10:45-11.15	Morning Coffee
11:15-12:45	Session 4: Fission/fusion defects in mitochondrial disease: cause or effect? <i>Chair: Marni Falk, The Children's Hospital of Philadelphia, USA</i>
	11:15 Linking mitochondrial cell biology to mitochondrial diseases <i>Julian Prudent</i> <i>MRC Mitochondrial Biology Unit, UK</i>
	11:45 Mitochondrial dynamics <i>Orian Shirihai</i> <i>Boston University, USA</i>
	12:15 Selected talk
	12:30 Selected talk
12:45-13:00	Session Discussion
13:00-14:30	Lunch <i>Hinxton Hall Restaurant</i>
14.30-16:00	Session 5: Mitochondrial biogenesis: the key to therapy? <i>Chair: Anu Suomalainen, University of Helsinki, Finland</i>
	14:30 Analysis of the mitochondrial proteome provides a basis for development of biomarkers and novel treatments of mitochondrial dysfunction <i>Nils-Goran Larsson</i> <i>Karolinska Institutet, Sweden</i>
	15:00 NAD(H) sensitive mechanisms in mitochondrial dysfunction <i>Rong Tian</i> <i>University of Washington, USA</i>
	15:30 Selected talk
	15:45 Selected talk
16:00-16:15	Session Discussion
16:15-16:45	Afternoon Tea
16:45 – 17:30	Lightening Talks (1 minute per poster – even number only)
17:30-18:45	Poster Session 2 (even numbers) with drinks reception

19:00 prompt **Conference Dinner**
Hinxton Hall Restaurant

19:00-23:00 Cash Bar
Hinxton Hall Bar and Wellcome Genome Campus Conference Centre

Friday 11 May 2018

07:30-09:00 Breakfast
Hinxton Hall Restaurant

09:00-10:30 **Session 6: Gene editing to treat mitochondrial diseases**
Chair: Vasmi Mootha, Harvard Medical School, USA

09:00 Title tbc
Michio Hirano
Columbia University, USA

09:30 Protein replacement therapy for mitochondrial genetic diseases
Haya Louberboum-Galski
Hebrew University, Israel

10:00 Selected talk

10:15 Selected talk

10:30-10:45 **Session Discussion**

10:45-11:15 **Morning Coffee**

11:15-12:15 **Session 7: Trial design in rare disease:**
Chair: Patrick Chinnery, University of Cambridge, UK

11:15 Trial design in rare disease
Shamima Rahman
University College London, UK

11:45 Trial design in rare disease
Patrick Yu Wai Man
University of Cambridge, UK

12:15-12:45 **Session Discussion**

12:45-13:30 **Session 8: Clinical intervention studies - latest updates**
Chair: Vasmi Mootha, Harvard Medical School, USA

Oral presentations selected from submitted abstracts

- 13:30 **Conference Summary**
- 13:45 **Conference Closure with Grab Bag lunch**
- 14:00 Complimentary shuttle to Cambridge train station, Cambridge City Centre, London Stansted Airport and London Heathrow Airport