

Mitochondrial Function and Health

Symposium organized by MitoHealth, a Nordic Centre of Excellence in Food Nutrition and Health and Biocenter Oulu Graduate School, University of Oulu, Oulu, Finland, 11.-12.11.2010, Lecture room BK130, University of Oulu, Linnanmaa

Thursday, 11.11.2010

- 9:30 Introductory words – Johanna Myllyharju, Biocenter Oulu Scientific Director
 Opening words – Kalervo Hiltunen, Department of Biochemistry, Chairman

SESSION 1 - Disease mechanisms and modeling

Chair: Massimo Zeviani

- 09:50 Joanna Poulton (University of Oxford)
Insights from cell biology for models and diseases of mtDNA maintenance
- 10:25 Alexander Kastaniotis (University of Oulu)
Metabolic control of mitochondrial biogenesis
- 11:00 Brendan Battersby (University of Helsinki)
Tissue-specific regulation of mitochondrial DNA genetics
- 11:35 Richard Sprenger (University of Southern Denmark, Odense)
Quantitative proteomics techniques and mitochondria
- 12:10 **Lunch break (1 h 5 min)**

SESSION 2 - Mitochondrial life cycle

Chair: Kalervo Hiltunen

- 13:15 Massimo Zeviani (University of Milano)
New disease mechanisms in mitochondrial medicine
- 13:50 Marko Kervinen (University of Oulu)
Modeling of human respiratory complex I/NADH dehydrogenase deficiencies
- 14:15 Susanne Mandrup (University of Southern Denmark, Odense)
Genome-wide chromatin remodeling during adipogenesis

14:50 *Coffee break (30 min)*

SESSION 3 - Clinical aspects of mitochondrial disease

Chair: Kari Majamaa

- 15:20 Anu Suomalainen-Wartiovaara (University of Helsinki)
Physiological consequences of mitochondrial dysfunction
- 15:55 Ottar Nygård (University of Bergen)
Circulating levels of acyl-carnitines and cardiovascular disease
- 16:30 Johanna Uusimaa (University of Oulu)
Mitochondrial diseases in children - a 20-year experience in Northern Finland

Friday, 12.11.2010

SESSION 4 - Physiological aspects of mitochondrial disease

Chair: Susanne Mandrup

- 09:30 Howy Jacobs (University of Tampere)
Molecular by-pass therapy for mitochondrial disease
- 10:05 Adam Szewczyk (Nencki Institute, Warsaw)
Pharmacology of mitochondrial potassium channels
- 10:40 Ian Holt (University of Cambridge)
Mitoskeleton
- 11:15 Rolf Berge (University of Bergen)
Mitochondria in relation to Metabolic Syndrome
- 11:50 Kari Majamaa
Closing comments

Organizing committee:

Kalervo Hiltunen (Chair), Anthony Heape, Anne Karjalainen, Alexander Kastaniotis, Marko Kervinen, Kari Majamaa, Laura Pietikäinen, Pia Askonen, Anne Vainionpää

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