



MINERVA FOUNDATION SYMPOSIUM 2022

MITOCHONDRIA AND LIPID DROPLETS

October 24 – 25, 2022, Hanaholmen, Espoo, Finland – Hybrid event

Monday 24 October 2022

MITOCHONDRIA I

Chairperson Vesa Olkkonen

Minerva Foundation Institute for Medical Research, Helsinki, Finland

15:00

Opening of the Symposium

Vesa Olkkonen, Minerva Foundation Institute for Medical Research

15:05 - 15:30

NAD⁺/NADH-reductive stress in metabolic disease.

Joseph Baur, Perelman School of Medicine, University of Pennsylvania, USA

15:35 – 16:00

NAD⁺ boosters in the treatment of muscle and liver disease.

Anu Wartiovaara, Stem Cells and Metabolism Research Program, University of Helsinki, Helsinki, Finland

16:05 – 16:30

Hepatic mitochondrial redox state and subtypes of NAFLD.

Panu Luukkonen, Minerva Foundation Institute for Medical Research

16:35 – 16:50

Mitochondrial dysfunction and epigenetic modification of nuclear chromatin.

Miina Ollikainen, Minerva Foundation Institute for Medical Research

16:55 – 17:25

Coffee

MITOCHONDRIA II

Chairperson Panu Luukkonen,

Minerva Foundation Institute for Medical Research, Helsinki, Finland

17:25 – 17:50

Mitochondrial function and ketogenesis.

Peter Crawford, Division of Molecular Medicine, University of Minnesota, Minneapolis, USA

17:55 – 18:20

Mitochondrial metabolism of pyruvate in NAFLD.

Brian Finck, Division of Biology and Biomedical Sciences, Washington University, St. Louis, USA

18:25 – 18:50

Mitochondrial uncouplers as a treatment for NAFLD and CVD.

Leigh Goedeke, Department of Medicine (Endocrinology), Yale School of Medicine, New Haven, USA

Tuesday 25 October 2022

LIPID DROPLETS I

Chairperson Elina Ikonen,
Minerva Foundation Institute for Medical Research, Helsinki, Finland

- 15:00 – 15:25 **New genes in lipid storage and metabolism.**
Karen Reue, David Geffen School of Medicine, University of California, LA, USA
- 15:30 – 15:55 **Lipid droplets and the spatial organisation of metabolism.**
Mike Henne, Department of Cell Biology, UT Southwestern Medical Center, Dallas, USA
- 16:00 – 16:15 **Lipid droplet size and altered choline metabolism in non-alcoholic fatty liver disease.**
Sami Qadri, Minerva Foundation Institute for Medical Research
- 16:20 – 16:35 **Lipid droplet-ER communication in neutral lipid storage.**
Lauri Vanharanta, Minerva Foundation Institute for Medical Research
- 16:40 – 17:10 *Coffee*

LIPID DROPLETS II

Chairperson Hannele Yki-Järvinen,
Minerva Foundation Institute for Medical Research, Helsinki, Finland

- 17:10 – 17:35 **Catabolism of lipid droplets.**
Douglas Mashek, Division of Diabetes, Endocrinology and Metabolism, University of Minnesota, Minneapolis, USA
- 17:40 – 18:05 **Mitochondria-lipid droplet interplay in metabolism.**
Orian Shirihai, Department of Molecular and Medical Pharmacology, UCLA, Los Angeles, USA
- 18:10 – 18:35 **Inhibition of HSD17B13 as a treatment of chronic liver disease.**
Heather Kay Webb Hsu, Inipharma, Seattle, USA
- 18:40 **Closing of the Symposium**

Registration for the Symposium will open in summer 2022.

The symposium is free of charge for participants. Students can receive 0.5 ECTS credits.

Minerva Foundation – <https://minervafoundation.fi/>

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