



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 - 15:25

NAD⁺/NADH-reductive stress in metabolic disease.

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

15:35 – 15:55

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 – 16:25

Hepatic mitochondrial redox state and subtypes of NAFLD.

Panu Luukkonen, Minerva Foundation Institute for Medical Research

16:35 – 16:55

Mitochondrial dysfunction and epigenetic modification of nuclear chromatin.

Miina Ollikainen, Minerva Foundation Institute for Medical Research

17:05 – 17:30

Coffee

MITOCHONDRIA II

Chairperson Panu Luukkonen,

Minerva Foundation Institute for Medical Research, Helsinki, Finland

17:30 – 17:50

Mitochondrial function and ketogenesis.

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

18:00 – 18:20

Mitochondrial metabolism of pyruvate in NAFLD.

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

18:30 – 18:50

Mitochondrial uncouplers as a treatment for NAFLD and CVD.

Leigh Goedeke, The Icahn School of Medicine at Mount Sinai, New York, USA

Tuesday 25 October 2022

LIPID DROPLETS I

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

- 15:00 – 15:20 **New genes in lipid storage and metabolism.**
Karen Reue, David Geffen School of Medicine, University of California, LA, USA
- 15:30 – 15:50 **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
- 16:25 – 16:40 **Lipid droplet-ER communication in neutral lipid storage.**
Lauri Vanharanta, Minerva Foundation Institute for Medical Research
- 16:50 – 17:15 *Coffee*

LIPID DROPLETS II

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

- 17:15 – 17:35 **Catabolism of lipid droplets.**
Douglas Mashek, Division of Diabetes, Endocrinology and Metabolism, University of Minnesota, Minneapolis, USA
- 17:45 – 18:05 **Mitochondria-lipid droplet interplay in metabolism.**
Orian Shirihai, Department of Molecular and Medical Pharmacology, UCLA, Los Angeles, USA
- 18:15 – 18:35 **Inhibition of HSD17B13 as a treatment of chronic liver disease.**
Heather Kay Webb Hsu, Inipharma, Seattle, USA
- 18:45 **Closing of the Symposium**

Registration for the Symposium will open in summer 2022.

The symposium is free of charge for participants.

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

Minerva Foundation Institute for Medical Research – <https://minervainstitute.fi/>

Background image: The first and last images from a confocal time-lapse series of migrating cells overexpressing focal adhesion marker zyxin-cherry (presented in pseudo-color white/pink). On the background, lysosome related organelles harbouring LDL-derived Bodipy-cholesterol and late endosomal marker CD63-cherry (both pseudo-colored). Design by Kristiina Kanerva.