

Mini-symposium

Mitochondrial and Metabolic Responses to Low Oxygen

Aarhus University, Auditorium G1 (building 1532, room 116)

March 14th 2019

Organizers: Angela Fago and Amanda Bundgaard, Department of Bioscience, Aarhus University

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| 9.00-9.05 | Welcome by Angela Fago |
| 9.05-9.35 | James Staples (Western University, London, Ontario, Canada) Does metabolic suppression improve hypoxia tolerance in mammalian hibernators? |
| 9.35-10.05 | Leslie Buck (Department of Cell & Systems Biology, University of Toronto) Mitochondrial signaling in anoxia tolerant painted turtle brain and liver cells |
| 10.05-10.35 | Mike P. Murphy (MRC Mitochondrial Biology Unit, Cambridge University) What are the differences between turtles and mammals in succinate metabolism during IR injury? |
| Coffee break | |
| 11.00-11.30 | Gina Galli (Division of Cardiovascular Sciences, University of Manchester). Developmental programming of mitochondrial function by prenatal hypoxia |
| 11.30-12.00 | Tinna V. Stevnsner (Department of Molecular Biology and Genetics, Aarhus University). Changes in nuclear and mitochondrial DNA repair with aging and after oxidative stress |
| 12.00-12.30 | Paula Fernandez Guerra (Department of Clinical Medicine, Research Unit for Molecular Medicine, Aarhus University) Oxygen consumption capacity in human peripheral blood mononuclear cells as a marker for health status on chronic diseases and treatment effects |
| Lunch at the Mathematic canteen | |
| 13.30-14.00 | Andrew James (MRC Mitochondrial Biology Unit, Cambridge University) Proximal Cysteine residues enhance Lysine N-acetylation and are less conserved in longer-living species |
| 14.00-14.30 | Gigi Lau (Department of Biosciences, University of Oslo) Adaptive variation of mitochondrial function to environmental O ₂ variability in intertidal sculpin fishes |
| 14.30-15.10 | Göran E. Nilsson & Sjannie Lefevre (Department of Biosciences, University of Oslo) Crucian carp: mitochondria, anoxia and reoxygenation |
| Coffee break | |
| 15.40-16.00 | Angela Fago (Department of Bioscience, Aarhus University) Turtle hemoglobin's adaptations to oxygen deprivation |
| 16.00-16.20 | Laura Cadiz (Department of Bioscience, Aarhus University) Blood-oxygen transport and mitochondrial respiration in hypoxic zebrafish |
| 16.20-16.40 | Birgitte Jensen (Department of Bioscience, Aarhus University) Hydrogen sulfide metabolites in tissues of freshwater turtles |