



Date: 2017-03-21 to 2017-03-23  
Venue: Institut d'Estudis Catalans, Barcelona

08:30 Registration and signature of attendance.  
08:45 Welcome. Introduction of COST-MITOEAGLE and Barcelona meeting to all participants

**WG1 session:**

Chair: *Kathrin Renner-Sattler - Germany*

- 09:15 Erich Gnaiger (AT) Quality first: a paradigm shift in mt-respiratory control towards global connection.
- 09:45 Paul Coen (USA) To bring MITOEAGLE and MoTrPAC together.
- 10:05 Werner Koopman (NL) Standardized quantification of mitochondrial morphology and function in living patient fibroblasts using microscopy.
- 10:30 Roberto Scatena, Patrizia Bottoni (IT) Mitochondria and cancer stem cells in hepatocarcinoma. An illustrative example of a tangled methodological approach.
- 10:55 Rob Wüst (NL) Mitochondrial Complex I function in heart failure: different angles to analyze mitochondrial function.

**11:10 COFFEE BREAK**

**WG2 session:**

Chair: *Terje Larsen - Norway*

- 11:40 Andrew Murray (UK) Metabolic adaptation to high altitude in Himalayan Sherpas.
- 12:10 Hervé Dubouchaud (FR) Effects of different fatty acids on skeletal muscle mitochondrial function.
- 12:25 Michal Nemeč (SK) Functional state of mitochondria in patients with preclinical and early stage neurodegenerative disease"
- 12:40 Arild Rustan (NO) Metabolic studies in human skeletal muscle cells.
- 12:55 Mario Ost (DE) Multivariate biomarkers of age-dependent sarcopenia: A blood based bioenergetics & cytokine profiling approach.
- 13:10 Ellen Aasum (NO) Mitochondrial function in the diabetic heart – effect of an acute fat-load.
- 13:25 Marko Vendelin (EE) VDACS open in the heart mitochondria.

**13:40 LUNCH**

**WG3 session:**

Chair: *Jan Nedergaard - Sweden*

- 14:40 Marc Claret (ES) Mitochondrial performance and central regulation of energy balance.

- 15:10 Lisa Chakrabarti (UK) Mitochondrial lipid and proteomics comparative studies in mammalian ageing.
- 15:25 Odeta Arandarcikaite (LT) Age-related responses of brain mitochondria to ischemic insult.
- 15:40 Ondrej Sobotka (CZ) The effect of 24 weeks of high-fat and high-cholesterol diet on rat liver mitochondria.
- 15:55 Tobias Fromme (DE) Source depot and dietary status influence oxidative phosphorylation capacity in permeabilized mature adipocytes.
- 16:10 Manuela Sanchez-Feutrie (ES) RAP250 deficiency protects from obesity, and enhances mitochondrial metabolism in adipose depots.
- 16:25 Irina Shabalina (SE) Control of UCP1 activity in brown fat mitochondria.

**16:40 COFFEE BREAK**

**WG4 session:**

Chair: *Magdalena Labieniec-Watala - Poland*

- 17:00 Nicoleta Moisoi (UK) Models of Parkinson's with focus on cell lines.
- 17:30 Elisa Calabria (IT) Age and frailty related changes in PBMCs mitochondrial function and whole body physiology.
- 17:45 Maria Monsalve (ES) Mitochondrial biogenesis in PMBC: potential biomarkers.
- 18:00 Claus Desler (DK) Mitochondrial mediated genomic instability in aging with focus on cell lines.
- 18:15 Slawomir Michalak (PL) Mitochondrial respiration in intact peripheral blood mononuclear cells in patients with extrapyramidal syndromes.
- 18:30 Clair Hartmann (DE) Mitochondrial respiration of peripheral blood mononuclear cells in an experimental porcine brain injury model.
- 18:45 Karolina Siewiera (PL) The effect of metformin on blood platelet bioenergetics and platelet function.

**DAY 2**

WG1:

- Towards a preprint publication on terminology in mitochondrial respiratory physiology.

WG2:

- Fatty acid oxidation evaluation in mitochondria

WG4:

- Mitochondrial ROS and inflammation.