MITOEAGLE Working Groups Workshop 2017

Obergurgl, Tyrol, Austria 2017, July 28-29



Programme

Friday, July 28 – Morning

F1 9:00-10:00 Selected presentations WG2, WG4

Erich Gnaiger:	Opening WG meeting
Luciana Ferreira:	Doxorubicin toxicity and mitochondrial dysfunction in mouse induced pluripotent stem cells-derived cardiomyocytes.
Luiz Crisostomo:	Glycerol metabolism in testicular cells – a mitochondrial tale that may control male reproductive potential.
Guida Bento:	Isolation of human urine-derived stem cells for mitochondrial function profile assessment.
Roberto Scatena:	Cancer stem cell differentiation induced by PPAR ligands. Which role for an inhibition of mitochondrial respiratory chain? <i>(poster)</i>
10:00 – 10:30 10:30 - 11:00	Terminology discussion Coffee/tea break

F2

11:00 – 12:00 Selected presentations WG2, WG1

Pablo Garcia-Roves:	MITOEAGLE data repository on muscle tissues - current status.
Carolina Doerrier:	Upper limit of OXPHOS capacity: effect of oxygen and ADP.
Andras Meszaros:	Personal proficiency and reproducibility of experimental results: a comparative study on respirometric analysis of HEK cells.
11:45 – 12:00	Terminology discussion: reference protocols, pathways
12:00 - 16:00	Lunch, Walk&Talk, Run&Fun

Friday, July 28 – Afternoon

F3 16:00 – 19:00 Selected presentations WG2

Jozef Ukropec:	Could functional state of muscle mitochondria reflect exercise-induced changes in insulin sensitivity, glucose tolerance and cognitive performance in individuals with mild cognitive impairment?
Kasja Pavlovic:	Establishing cellular model for studying mechanisms of muscle insulin resistance: towards understanding the role of mitochondria.
Petr Waldauf:	Effect of propofol on energy metabolism in an in vitro model of human skeletal muscle homogenates.
Adela Krajcova:	Developing a method of assessing mitochondrial functions in homogenates of human heart muscle.
Beatrice Chabi:	Optimization of permeabilized fibers preparation for mitochondrial respiration measurements using Design of Experiments methodology. <i>(poster)</i>
17:00 - 17:30	Discussion
17:30 - 18:00	Coffee/tea break
Timea Komlodi:	Common pitfalls in the everyday work with respirometry.
18:15	Discussion
19:00	Dinner



Saturday, July 29 – Morning

G1 9:00-10:00 Oxidative and nitrosative stress

Javier Iglesias-Gonzales: Oscillations in mitochondrial ROS production as a new mechanism for cell cycle control.

Timur Gainutdinov:	Different ways of reactive oxygen species (ROS) formation by brain mitochondria.
Herve Dubouchaud:	Effects of a single bout of exercise on the production of reactive oxygen species in muscle and liver isolated mitochondria.
Jordi Muntane:	Integration of oxidative and nitrosative stress in the overall cell death signaling induced by Sorafenib in hepatoma cells.
10:00 - 10:30	Discussion
10:30 - 11:00	Coffee/tea break

G2 11:00 – 12:00 Presentations WG4: blood cells

Luiz Garcia-Souza:	Towards a database on PBMC mitochondrial respiration: first steps on a literature survey linked to the MitoFit experimental data.
Beata Velika:	High-Resolution Respirometry and viability of cryopreserved blood cells.
Zuzana Sumbalova:	Comparison of methods for PBMC isolation: the effect on yield, purity and respiration.
11:45 – 12:00	Discussion blood cells
12:00 – 16:00	Lunch, Walk&Talk, Run&Fun

Saturday, July 29 – Afternoon

G3 16:00 – 17:30 Discussion in WG

(Splitting according WG interests to separate WG)

16:00 - 17:30	WG4 - Blood cells
16:00 - 17:30	WG4 - Cell lines
16:00 - 17:30	WG3 - Next steps
16:00 - 17:30	WG2 - Steps towards database
16:00 - 17:30	WG1 - Steps towards terminology manuscript
17:30 - 18:00	Coffee/tea break
18:00 - 19:00	WG summary
19:00	Dinner

