



**KRAKOW, 28 -29 SEPTEMBER 2009**

# **COST MITOFOOD Meeting**

## **PROGRAMME**



**cost FA0602**

**ORBIS CRACOVIA KRAKÓW**  
ul. Marsz. F. Focha 1, 30-111 Kraków, Polska

**MONDAY 28.09.2009**

**09.00 - 9.30**

**JAAP KEIJER & ALDONA DEMBINSKA-KIEĆ**  
**WELCOME & OPENING INFO**

**PETER RASPOR - THE COST OFFICER**  
**ADDRESS FROM BRUSSEL COST OFFICE**

**NEVEN ZARKOVIC** *Rudjer Boskovic Institute (HR)*  
COST B35 ACTION TRIBUTE TO OXIDATIVE HOMEOSTASIS

**09.30 - 11.00**

### **SESSION I**

**CHAIR: JAN NEEDERGARD**  
**MITOCHONDRIA – BASIC APPROACH**

**09.30 - 10.00** **EDWIN MARIMAN** *Maastricht University (NL)*  
PRESENT-DAY ACHIEVEMENTS IN STUDYING THE  
MITOCHONDRIAL PROTEOME

**10.00 - 10.30** **ADAM SZEWCZYK** *Nencki Inst, Warszawa (PL)*  
MITOCHONDRIAL MEMBRANE CHANNELS

**10.30 - 11.00** **GERD SCHMITZ** *University of Regensburg (DE)*  
LIPIDOMICS OF THE MITOCHONDRIA ASSOCIATED MEMBRANE  
(MAM) COMPARTMENT DURING CELL DIFFERENTIATION  
AND LIPID CHALLENGE

**11.00 – 11.30**

**Coffee break**

**11.30 – 13.00**

### **SESSION II**

**CHAIR: JERZY DUSZYNSKI & ZOFIA ZUKOWSKA**  
**MANIPULATION OF MITOCHONDRIAL FUNCTION**

**11.30 - 12.00** **MAREK BODZIOCH** *JUMC, Kraków (PL)*  
HUMANIN AS THE MITOCHONDRIAL ANTIAPOPTOTIC PROTEIN.

**12.00 – 12.30** **JAAP KEIJER** *Wageningen University*  
BETA-CAROTENE AFFECTS OXIDATIVE STRESS RELATED  
DNA RAMAGE IN LUNG EPITHELIAL CELLS AND IN FERRET  
LUNG.

**12.30 - 13.00** **DANIEL JANCURA** *Safarik Univ, Kosice (SK)*  
CYTOCHROM C OXIDASE AS A KEY COMPONENT OF  
OXIDATIVE PHOSPHORYLATION: REGULATION AND  
MODULATION OF ITS CATALYTIC ACTIVITY

13.00 – 14.00

**LUNCH**

14.00 – 16.30

**SESSION III**

CHAIR: **BARBARA CANNON**

**MODIFICATION OF ADIPOGENESIS vs. ANGIOGENESIS**

14.00 – 14.30

**ZOFIA ZUKOWSKA** *Georgetown University (USA)*

STRESS, NPY AND ADIPOGENESIS

14.30 – 15.00

**BARBARA CANNON & JAN NEDERGAARD**

*Wenner-Gren Inst, Stockholm Univ (SE)*

HYPOXIA - INDEPENDENT COLD-INDUCED ANGIOGENESIS IN BROWN AND WHITE ADIPOSE TISSUES: MUTUALLY OPPOSING ROLES OF VEGF RRECEPTOR-1 AND -2 IN REGULATING METABOLISM

15.00 - 15.30

**PAVEL FLASCH** *Inst Physio ASCR, Prague (CZ)*

INDUCTION OF MITOCHONDRIA BIOGENESIS IN WHITE FAT BY N-3 PUFA – MOLECULAR MECHANISMS AND PHYSIOLOGICAL RELEVANCE

15.30 –16.15

**ALDONA DEMBINSKA-KIEC** *JUMC Kraków (PL)*

DIFFERENTIATION OF STROMAL VASCULAR FRACTION (SVF) CELLS

16.15 – 16.30

**Coffee break**

16.30 – 18.00

**The COST MITOFOOD Board Meeting**

19.00

**DINNER**

**TUESDAY 29.09.2009**

09.00 - 11.00

**SESSION IV**

CHAIR: **EDWIN MARIMAN**

**MITOCHONDRIA AND DISEASE (I)**

09.00 - 9.30

**CHRISTOPHER D. BYRNE** *Southampton University (UK)*

MITOCHONDRIA, ADIPOGENESIS AND FATTY LIVER DISEASE: THE IMPORTANCE OF EARLY DEVELOPMENT

09.30 - 10.00

**MARTA WOJEWODA** *Nencki Inst, Warszawa (PL)*

CHRONIC MITOCHONDRIAL STRESS IN HUMAN OSTEOSARCOMA CELLS

10.00 - 10.30

**HENNA TYYNISMAA** *University Helsinki (FI)*

A HETEROZYGOUS TRUNCATING MUTATION IN RRM2B CAUSES AUTOSOMAL-DOMINANT PROGRESSIVE EXTERNAL OPHTHALMO-PLEGIA WITH MULTIPLE MTDNA DELETION

10.30 - 11.00

**Coffee break**

11.00 – 13.00

**SESSION IV**

CHAIR: **ALDONA DEMBINSKA-KIEC**

**MITOCHONDRIA AND DISEASE (II)**

11.00 - 11.20

**MAREK BODZIOCH** *JUMC, Kraków (PL)*

GENES ASSOCIATED WITH MITOCHONDRIAL FUNCTIONS IN HUMAN NEUROCOGNITIVE AND PAROXYSMAL DISORDERS.

11.20 – 11.40

**HEGE THORESEN** *University of Oslo (NO)*

EFFECTS OF HYPERGLYCAEMIA AND FATTY ACID PRETREATMENT ON FATTY ACID OXIDATION AND METABOLIC FLEXIBILITY IN HUMAN SKELETAL MUSCLE CELLS

11.40 - 11.55

**BARBARA ZAPALA** *JUMC, Kraków (PL)*

L-ARGININE AND FREE FFATTY ACIDS AS THE MODULATORS OF MITOCHONDRIAL FUNCTION OF CNS CELLS

11.55- 12.10

**BEATA KIEC-WILK** *JUMC, Kraków (PL)*

BETA-CAROTENE INDUCED METHYLATION - ROLE IN ADIPOGENESIS/ANGIOGENESIS

12.10 –12.25

**URSZULA RAZNY** *JUMC, Kraków (PL)*

REGULATION OF WAT/BAT METABOLISM IN NOS DEFICIENT AND DDAH TRANSGENIC MICE ON HIGH FAT DIET

12.25 - 12.40

**KATARZYNA LAPICKA-BODZIOCH** *JUMC, Kraków (PL)*

CONNEXIN 43 AND ITS ROLE IN THE CNS CELL FUNCTION

12.40 - 13.00

**CLOSING REMARKS**

13.00 – 14.00

**LUNCH**

**DEPARTURE**