

## ITC CONFERENCE GRANT SCIENTIFIC REPORT

This report is submitted for approval by the grantee to the MC Chair.

**Action number: CA15203**

**Conference title: MiP 2017 / MitoEAGLE Conference, The role of mitochondria in lifestyle and metabolic syndrome – MITOEAGLE perspectives**

**Conference start and end date: 15/11/2017 to 18/11/2017**

**Conference attendance start and end date: 14/11/2017 to 18/11/2017**

**Grantee name: Dr. Marina Makrecka-Kuka**

### ACTIVITIES DURING YOUR ATTENDANCE AT THIS CONFERENCE:

During MiP 2017 / MitoEAGLE Conference in Hradec Králové, Czech Republic:

- 1) I've given an oral presentation title "Heart, brain and kidneys: who will survive? Tissue-specific changes in mitochondrial function in the experimental model of endotoxemia".
- 2) The lectures on mitochondrial functionality in physiological (e.g. exercise, fasting, altitude adaptation) and pathological states (e.g. diabetes, neurodegenerative disorders) were attended.
- 3) The sessions dedicated to mitochondrial functionality assessment standardization and validation in different tissues were attended.
- 4) In addition, the common interests with other participants were found, and discussions regarding networking possibilities took place.

### IMPACT ON YOUR RESEARCH AND FUTURE COLLABORATIONS (if applicable)

- 1) The presenting of the my research results to experts in mitochondrial field provided an excellent opportunity to discuss results of my ongoing research as well as new ideas how to strengthen the results for further publication.
- 2) Attended lectures provided novel knowledge and ideas for future research planning in the field of exercise physiology, neuropsychiatric disorders induced cognitive decline, and mitochondrial molecular biomarkers and target identification.
- 3) The session dedicated to methodological aspect of mitochondrial research had significant impact for future experiment planning by addressing critical know-how in mitochondrial research methodology, and the importance of protocol harmonization.
- 4) The discussion regarding possibilities of collaboration provided opportunity to establish novel long-lasting networking with researchers from other countries.

Overall, the participation in MiP2017/MitoEAGLE Conference had strengthened my expertise in mitochondrial research and mitochondrial functionality assessment planning and provided unique possibility to establish novel transnational collaborations that could result in joint publications and project applications in future.