

ITC CONFERENCE GRANT SCIENTIFIC REPORT

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

Action number: CA15203

Conference title: 12th Conference on Mitochondrial Physiology

Conference start and end date: 2017-11-15 to 2017-11-18

Conference attendance start and end date: 2017-11-15 to 2017-11-18

Grantee name: Beáta Veliká

ACTIVITIES DURING YOUR ATTENDANCE AT THIS CONFERENCE:

I actively attended the 12th Conference on Mitochondrial Physiology in Hradec králové (Czech Republic). The topic of my lecture was: PBMC cryopreservation and evaluation for functional mitochondrial diagnosis.

I also attended MitoEAGLE Working Group Meetings, where in WG4 group, we discussed and summarized different factors which could influence the isolation and respiration of isolated blood cells (e.g. effect of different coagulators – heparin, EDTA; effect of different isolation and respiration media).

On Saturday, 2017-11-18, I attended MitoEAGLE Management Committee Meeting.

IMPACT ON YOUR RESEARCH AND FUTURE COLLABORATIONS (if applicable)

In the future, I would like to collaborate with the Univ.-Prof. Dr. Erich Gnaiger and his team (Medical University of Innsbruck, Department of Visceral, Transplant and Thoracic Surgery, D. Swarovski Research Laboratory, Mitochondrial Physiology), with the project focused on the improvement of the SUIT (substrate-uncoupler-inhibitor titration) protocols for high-resolution respirometry of freshly isolated and cryopreserved human blood cells, as well as improvement of cryopreservation protocols. I also would like to collaborate with prof. Zuzana Cervinkova (Faculty of Medicine in Hradec Kralove, Charles University of Prague), where I would like to learn the fluorescence microscopy methodology.