

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 (12th Conference on Mitochondrial Physiology: The role of mitochondria in lifestyle and metabolic syndrome - COST MitoEAGLE perspectives).

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

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

Grantee name: Karolina Siewiera

ACTIVITIES DURING YOUR ATTENDANCE AT THIS CONFERENCE:

(max.500 words)

The *MiP 2017 / MitoEAGLE Conference (12th Conference on Mitochondrial Physiology: The role of mitochondria in lifestyle and metabolic syndrome - COST MitoEAGLE perspectives)* conference was held in Hradec Kralove, November 15-18, 2017. The *MiP 2017 / MitoEAGLE Conference* was a meeting, during which the laboratory measurements, theoretical and numerical analyses were discussed, with the aim of the improvement of the understanding of the mitochondrial physiology and pathology. More than thirty speakers were involved in the programme, including six oral presentation sessions, two poster sessions, MitoEAGLE Working Group Meetings and MitoEAGLE Management Committee Meeting. This conference was an ideal platform to share the results of my work, because it is an international forum consisting of researchers, the majority of whom are top experts in the field of mitochondria research.

The abstract that I had submitted to the conference was allocated in *Mitochondrial fitness mapping* session. The title of the abstract was *Changes in blood platelet and brain mitochondrial respiration during short- and longlasting STZ-induced diabetes* by Siewiera K, Labieniec-Watala M, Karolczak K, Wolska N, Polak D, Kassassir H, Watala C., and it was published in the conference book. I gave an oral presentation in the conference for ten minutes on Thursday, November 16th and it was well received by academic researchers and experts. I also attended other conference events at November 15, 17 and 18.

It was an excellent opportunity to get acquainted with current research in the area of mitochondrial studies. During MitoEAGLE Working Group Meetings I received the updated information on SUIT protocols used for measuring of mitochondrial respiration in blood platelets and peripheral blood mononuclear cells. We also discussed and worked on the preprint of the manuscript entitled *The protonmotive force and respiratory control: Building blocks of mitochondrial physiology Part 1*. It was an excellent opportunity to interact and exchange our findings and views. I also had the pleasure to be a member of the commission assessing the quality of reports during the poster session.

I met a number of academics and professionals from different countries, who had similar research interests, such as mitochondria physiology in blood cells and methodology used in these studies. Finally, I would like to thank the COST Action CA15203 - MitoEAGLE for giving me the opportunity to attend the *MiP 2017 / MitoEAGLE Conference* thanks to ITC conference grant fundings which covered my expenses. This conference was very interesting and enriched my scientific experience.

IMPACT ON YOUR RESEARCH AND FUTURE COLLABORATIONS (if applicable)

(max.500 words)

During MitoEAGLE Management Committee Meeting a decision was made to organize the workshop for the Working Group 4 (*Working Group 4 blood cells workshop and retreat - COST Action MITOEAGLE*), in which I plan to participate. Also, the strategy to raise funds for joint research in the framework of WG4, including the possibility of submitting joint grant applications, was discussed.