

ITC CONFERENCE GRANT SCIENTIFIC REPORT

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

Action number: CA15203

Conference title: WISe3 (Wien, Innsbruck, Szeged) Conference

Conference start and end date: 26/03/2018 to 27/03/2018

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Grantee name: Nina Krako Jakovljevic

ACTIVITIES DURING YOUR ATTENDANCE AT THIS CONFERENCE:

My attendance started the first day of the WISe3 (Wien, Innsbruck, Szeged) Conference and completed the last day. On the first day I followed the scientific programme that was related to sepsis and systemic inflammation, circulatory shock and ischemia-reperfusion and biologically active gases and small signalling molecules. The second day I participated to the Oroboros O2k-workshop on hypoxia, together with morning scientific session and demo experiment. Finally, in the last scientific session dedicated to the COST Action MitoEAGLE, I gave my oral presentation entitled "Investigation of subcellular mechanisms in insulin resistance models in hepatocytes and myocytes" and explained my contribution to this COST Action.

IMPACT ON YOUR RESEARCH AND FUTURE COLLABORATIONS (if applicable)

My participation to this conference, directly positively influenced my research, specifically topics that were in focus during Oroboros O2k-workshop. What I learned during that workshop will directly help me to better perform my experiments on high resolution respirometry, in terms of correct set up and calibration of the instrument as well as how to correctly follow oxygen level and how to recognize aerobic-anaerobic transition and when to reoxygenate chamber. This will help me to correctly evaluate mitochondrial function in the cellular models of insulin resistance which I use and hopefully answer the questions: does and how mitochondria play role in this condition.

Regarding collaborations, many interesting talks were given by high-quality scientist and most of them were open for collaborations. But, the most probable collaboration in the near future for me will be with young scientist from Szeged, Hungary, Laszlo Juhasz with whom I would like to try to measure extramitochondrial calcium movement in the cells. The other interesting collaboration is with Andrea Verissimo Luis, Marie Curie Early Stage Researcher from Vienna, Austria, with whom I exchanged different e-mails and papers, regarding endoplasmic reticulum - mitochondria connections. This could be followed by plasmid exchange as new tools for our research and experiments.