

ITC CONFERENCE GRANT SCIENTIFIC REPORT

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

Action number: CA15203

Conference title: Joint meeting WIS³

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

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

Grantee name: Jovana Bradic

ACTIVITIES DURING YOUR ATTENDANCE AT THIS CONFERENCE:

(max.500 words)

Conference started at 9 am on 26th March with welcome speech by prof. Ferenc Bari, prof. Mihaly Boros and assist. prof Andras Meszaros. The lectures belonging to the 1st session "Sepsis and systemic inflammation" provided useful information referring to the best recommendations for animal models of sepsis and therapeutic possibilities during the septic response. Within the second session "Circulatory shock and ischemia-reperfusion I had opportunity to present the results of research entitled "The effect of potassium-cyanide on isolated rat heart after short term ischemia. Additionally during this session participants were able to hear novel findings in terms of remote ischemic preconditioning. Afternoon session was oriented on the effects of biologically active gases and signalling molecules in different conditions and experimental protocols, with a special emphasis on the role of methane. During break time and organized dinner time all participants could share their suggestions and ideas about future researches, with a chance for establishing future collaboration. During the following day, a session entitled "Mitochondria" brought new evidence about the cardioprotective effects of methane and there was a demo experiment regarding mitochondrial oxygen kinetics. Afterwards COST ACTION MitoEAGLE enabled participants to hear detailed information about the role of glutamate-nitric oxide pathway in mouse model of Alzheimer's disease or role of mitochondria in condition of insulin resistance on different cell lines.

IMPACT ON YOUR RESEARCH AND FUTURE COLLABORATIONS (if applicable)

(max.500 words)

This conference undoubtedly provided me a great opportunity to hear about the possible targets for cardioprotection, which is closely related to my field of interest. My current researches are oriented on the role of different preconditioning and postconditioning agents on ischemia-reperfusion injury, therefore a chance to introduce with a recent findings referring to the beneficial impact of methane in reduction of ischemia induced cardiac damage was of a great importance for my future investigations. Those sessions made me get possible ideas for designing studies with the aim to test this molecule in other experimental models of ischemia. It shouldn't be missed that dynamic discussion after presentation of my research gave

me directions for further researches in that area. Moreover I was able to receive a very useful advice from eminent prof. Jozsef Kaszaki related to methods for determination of nitrosative stress, which is closely associated with my investigations about the role of oxidative stress markers in physiological and pathological models.