

ITC CONFERENCE GRANT SCIENTIFIC REPORT

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

Action number: CA15203

Conference title: WISe3 Conference in Szeged

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: PAVEL IOANA ZINUCA

ACTIVITIES DURING YOUR ATTENDANCE AT THIS CONFERENCE:

(max.500 words)

Throughout the WISe3 Conference that was held in Szeged I attended the scheduled sessions (Sepsis and Systemic Inflammation; Circulatory Shock and Ischemia-Reperfusion; Biologically Active Gases and Small Signalling Molecules in the first day), and the session on Mitochondria in the second day, respectively.

Also, in the second day of the conference, I participated in the very interesting workshop on hypoxia, including the demo experiment "Mitochondrial oxygen kinetics in closed-chamber respirometers".

Last but not least, I participated at the COST ACTION MitoEAGLE session with a poster presentation, entitled "**The Acute and Chronic Effects Of A Benzylamide Derivative Of Maslinic Acid In Liver Mitochondria Isolated from Mice With Chemically-Induced Skin Carcinogenesis**".

IMPACT ON YOUR RESEARCH AND FUTURE COLLABORATIONS (if applicable)

(max.500 words)

During the WISe3 Conference I learned how mitochondrial oxygen kinetics can be performed in closed-chamber respirometers and how to determine the oxygen dependence of H₂O₂ production using the Amplex Ultra Red fluorescence assay.

I am interested in the mitochondrial bioenergetic dysfunction in the setting of cancer and more specifically, in studying the effects of phytochemicals targeting mitochondria. I want to apply the methods learned in order to evaluate the potential therapeutic effects of bioactive compounds in the settings of simulated hypoxia.

We plan to continue the collaboration between the institutions with respect to this topic, namely, the changes at mitochondrial level induced by different phytochemicals under hypoxic conditions.