TO:
Dr Florence Velge-Roussel
University of Tours
UFR Medicine
10, Bvd Tonnellé
37032 TOURS

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Short Term Scientific Mission, COST Action BM1406

Host Report

Period: from 28/03/2016 to 28/04/2016

Beneficiary: Claudia Rodrigues, Faculty of Pharmacy, University of Lisbon Av. Prof. Gama Pinto 1649-003 Lisboa-Portugal
Host: Ana Čipak Gašparović, Rudjer Boskovic Institute, 10000 Zagreb, Croatia
Reference code: ECOST-STSM-BM1406-280316-073031

The STSM Application of Claudia Rodrigues was aimed to investigate on a simplified yeast model the effect of oxidative stress on aquaporin expression and function and correlate with the results obtained on breast cancer and colon cancer cell lines as well as macrophage cell line.

During the STSM of COST Action BM1406, Claudia performed experiments on yeast overexpressing rAQP5 and its control strain transformed with empty plasmid. The aquaporin expressing strain was shown to be resistant to oxidative stress, and the experiments were aimed at clarifying the mechanism leading to the observed resistance. For this purpose, measurements of antioxidative defence system were performed. In addition, due to collection of cancer cell lines in Zagreb, mRNA isolation was performed from different cancer cell lines in different growth conditions (cancer stem cell inducing conditions or oxidative stress, respectively). The obtained material will be analysed in Lisbon for aquaporin expression profile.
All these experiment are described very clearly in Claudia's STSM report, which I approved.
The results gained during Claudia Rodrigues's visit are the part of join manuscript which is being prepared in collaboration with Prof Graca Soveral.

Sincerely,

Ana Čipak Gašparović