Post-Doc position: Production of reactive oxygen species by Photosystem II

Location Palacký University, Olomouc, Czech Republic

Institute Information Department of Biophysics, Centre of the Region Haná for Biotechnological and Agricultural Research, Faculty of Science, Palacký University, Šlechtitelů 11, 783 71 Olomouc, Czech Republic, http://biofyzika.upol.cz/en

Supervisor: Pavel Pospíšil, Ph.D., Associate Professor (pospip@prfnw.upol.cz)

Job Description
The aim of Post-Doc project will be to study production of reactive oxygen species (ROS) by Photosystem II (PSII) in higher plant (spinach, Arabidopsis thaliana) both in vivo and in vitro. The project will use a multidisciplinary approach involving biophysical, biochemical and physiological methods. In vitro, light-induced production of singlet oxygen, superoxide anion radical and hydroxyl radical will be measured using electron paramagnetic resonance (EPR) spin-trapping spectroscopy. Various spin traps (TEMPO, POBN, DEPMPO, EMPO, BMPO) will be used to detect short-living oxygen radical with high sensitivity and specificity.

The contract will last 2 years, starting at the latest in 1st March 2013.

The salary according to the Czech University salary system.

Qualification
1) completed Ph.D. study in Biophysics, Biochemistry or Plant Physiology;
2) graduation since March 2008 – now
3) previous experience in photosynthesis or generation of free radicals in biology
4) publication activity
5) excellent level of English language
6) personal interview including presentation of previous applicant’s results

How to Apply Application along with required documents: structured curriculum vitae, motivational letter describing research intentions, copy of Ph.D. diploma, overview of published papers, recommendation letter from educating department have to be sent to pospip@prfnw.upol.cz

Deadline for application is 20. 12. 2012.