

Freie Universität Berlin – Ciência sem Fronteiras (CsF) Program 2013

Open Position for CsF candidates 2013

Department/Institute: Institute of Biology

Subject Area: Biology/ Applied Genetics

Name of Supervisor: **PD Dr. Alexander Heyl**

Number of Positions: 1

Type of Position **PhD**

Project Title: PhD student in the field of plant molecular biology

Project Description: The cytokinin signaling transduction pathway translates the cytokinin signal into a physiological response. This is accomplished by changes in the transcriptome after cytokinin treatment. One of the long-standing goals of the lab is to identify the factors involved in the regulation of the transcriptional response and to understand their function. Previous experiments revealed a novel cis-regulatory element, which plays a pivotal role in the cytokinin response. Using the yeast-one hybrid system factors binding this element will be identified. Different methods such as promoter::GUS fusions, real time PCR, and subcellular localization will be employed to characterize the factors identified. Molecular and biochemical assays, such as EMSA, ChIP-Seq, yeast two-hybrid and co-affinity purification, will be used to investigate the target genes and the functions of the transcriptional regulators. Phenotypic analysis of knock-out and overexpression lines will be employed to investigate the biological role of the new trans-factors in planta..

Academic Requirements: Master or equivalent

Language Requirements: English (fluent; excellent writing skills)

Further Information: http://www.angenetik.fu-berlin.de/hey1_eng.html

Further Information on Ciência sem Fronteiras at FU Berlin http://www.fu-berlin.de/en/sites/brazil/Ci_ncia_sem_Fronteiras/index.html

Application <http://www.csf-alemanha.de/pt/>
While applying online via this website, please make sure to also upload or send a copy of the following documents to saopaulo@fu-berlin.de:

- letter of application;
- academic CV (including former study programs, internships, publications);
- one or two letters of recommendation of distinguished professors of your university.

Some of the above documents are also required by Capes, but FU Berlin needs an **English or German version of each of the listed documents**. The documents are required by the individual institution responsible for the acceptance process. They may enhance your chances to get accepted. A decision cannot be made unless they have fully been transmitted. For further questions, please contact saopaulo@fu-berlin.de.