



PhD Program between the Freie Universität Berlin (FUB) and the China Scholarship Council (CSC)

Open PhD position at FUB for CSC scholarship candidates 2018

Please note: the PhD position is only offered to Chinese PhD candidates for application in the framework of the FUB-CSC PhD Program.

<u>Department/Institute:</u>	Department of Biology, Chemistry, Pharmacy / Institute of Biology – Epigenetics of Plants
<u>Subject area:</u>	Plant molecular biology, epigenetics, stress physiology
<u>Name of Supervisor:</u>	Prof. Dr. Daniel Schubert
<u>Number of open PhD positions:</u>	1
<u>Type of the PhD Study:</u>	Full-time
<u>Project title:</u>	Epigenetic regulation of stress memory

PhD Project description:

Research in the group focuses on memory processes in plants: how plants remember transitions in the lifecycle and how they memorize stressful events to become more resistant to subsequent stresses (see AG Schubert website and CRC973 website; also Schatlowksi et al. 2010, Plant Cell 22: 2291; Lafos et al. 2011, PLoS Genetics 7: e1002040; Müller-Xing et al. 2014, Plant Cell 26: 2457). The project will contribute to deciphering molecular and genetic mechanisms of epigenetic gene regulation which confer prolonged stress memory in plants. We are using Arabidopsis as model but are also interested in evolutionary aspects of epigenetic gene regulation and transferring results to crop species. The project will combine biochemical, molecular and genetic analyses and use cutting-edge technologies and facilities for imaging and mutant analyses, cell-type specific, epigenomic profiling (INTACT, ChIP-Seq) and biochemical analyses. The detailed project will be determined based on your interest and experience. The group is part of the part of the Dahlem Centre of Plant Sciences (DCPS), which is a focus area of FU Berlin, and the Collaborative Research Center (CRC) 973 “Priming and Memory of Organismic Responses to Stress” which offer both excellent training and facilities.

Language requirements:

IELTS: 6.5 or TOEFL: 95 ibt.

Academic requirements:

Master in Biology. A background in epigenetics, plant molecular biology and/or genetics is an advantage. The successful candidates are expected to be highly motivated and creative team players. A background in epigenetics, plant molecular biology and/or genetics is an advantage. The successful candidates are expected to be highly motivated and creative team players.

Information of the professor or research group leader:

The group consists of several international students and the working language is English. More information on the research topics, publications etc. can be found here:

http://www.bcp.fu-berlin.de/en/biologie/arbeitsgruppen/genetik/ag_schubert/index.html

http://www.sfb973.de/research/Project_C7/index.html

<http://www.dcps.fu-berlin.de/index.html>

Please note: In a first step, the complete application must be submitted to the Beijing Office for evaluation by January 4th, 2018. Please do not contact the professor before. He/She will get in contact with you after having received the complete application via the Beijing Office in January.