



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

### Open Postdoc position at FUB for CSC scholarship candidates 2016

*Please note: the postdoc position is only offered to Chinese who graduated with a PhD degree from a Chinese university.*

<b><u>Department/Institute:</u></b>	Applied Genetics/Institute of Biology, Dahlem Centre of Plant Sciences (DCPS)
<b><u>Subject area:</u></b>	Plant Molecular Biology
<b><u>Professor / Research Group:</u></b>	Prof. Dr. Tomáš Werner
<b><u>Number of open Postdoc positions:</u></b>	2
<b><u>Project title:</u></b>	Molecular mechanisms regulating cytokinin metabolism in the plant cell

#### **Postdoc Project description:**

Cytokinin is a plant hormone that influences many aspects of plant growth and development. It is a key morphogenic factor controlling cell division and differentiation, and thus formation and growth of plant organs. The question, which specific plant developmental programs are under cytokinin control and which molecular mechanisms underlie cytokinin action in these processes, has been in the focus of my research group. The cellular concentration of active cytokinin molecules is decisive factor for the correct physiological responses and is therefore tightly regulated by multiple reactions. Metabolically, most relevant processes maintaining the cellular cytokinin homeostasis are de novo biosynthesis, catabolic degradation, as well as various metabolic interconversions and modifications. The project will be mainly focus on characterization of molecular mechanisms regulating the catabolic pathway, which involves cytokinin oxidases/dehydrogenases enzymes. Further, the intracellular distribution of the hormone molecules and the transporting protein machinery mediating this process will be studied. A broad spectrum of genetic, molecular biological, cellular and biochemical approaches and setups will be employed.

#### **Language requirements:**

Excellent English skills (fluent conversation and good writing skills) are required.

#### **Academic requirements:**

A PhD degree in following subject areas is required::

- molecular biology
- genetics
- plant biology/physiology
- developmental biology

- biochemistry
- cell biology

The candidate is expected to be familiar with the basic and advanced techniques of molecular and cellular biology; experience with plant research is advantageous but not obligatory.

**Information of the professor or research group leader:**

Prof. Dr. Tomáš Werner  
Applied Genetics/Institute of Biology  
Dahlem Centre of Plant Sciences (DCPS)  
Albrecht-Thaer-Weg 6  
14195 Berlin  
Germany

Internet: [http://www.angenetik.fu-berlin.de/werner\\_eng.html](http://www.angenetik.fu-berlin.de/werner_eng.html), where you find also literature relevant to the project

**Please note:**

In a first step the complete application should submit to the Beijing Office for evaluation by November 21, 2015. Please don't contact the professor before. He/She will get in contact with you after having received the complete application.