



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

Open PhD position for CSC scholarship candidates 2015

The PhD position is only offered to Chinese PhD candidates for application in the framework of the FU-CSC Program.

<u>Department/Institute:</u>	Institute for Neurobiology/Max-Delbrück-Center for molecular medicine
<u>Subject area:</u>	Developmental Neurobiology
<u>Name of Supervisor:</u>	Prof. Dr. Fritz G. Rathjen
<u>Number of open positions:</u>	2
<u>Project title:</u>	Molecular analysis of axonal branching

Project description:

The branching of axons is a morphological hallmark of virtually all neurons, and allows an individual nerve cell to innervate several distinct targets and to communicate with neurons in different parts of the brain. Axonal branching is therefore a key mechanism in the generation of neuronal circuits and allows the processing of information arriving from different parts of the body. Thus, axonal branching is crucial for normal brain function and impairments of branching might result in neurological and neurodevelopmental disorders. In the last decades axonal branching has been therefore the subject of intense study primarily by in vitro cultures, but our knowledge of the underlying molecular signaling mechanisms is still fragmentary. Dr Rathjen's laboratory focuses on the molecular analysis of branching of axons and the identification of signalling cascades important for axon arborisation. We apply molecular, genetic, biochemical, electrophysiological and histological techniques.

For further information please see our homepage at the Max-Delbrück-Center.

Language requirements:

English, German is not required

Academic requirements:

Master of Biology or Master of Neurobiology or Master of Biochemistry

Link to professor and further information:

Please note:

In a first step the complete application should submit to the Beijing Office for evaluation by January 4th. Please don't contact the professor before. He will get in contact with you after having received the complete application in January.