



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.

<u>Department/Institute:</u>	Institute for Neurobiology/Max-Delbrück-Center for molecular medicine
<u>Subject area:</u>	Developmental Neurobiology
<u>Professor / Research Group:</u>	Prof. Dr. Fritz G. RATHJEN (Mr.)
<u>Number of open Postdoc positions:</u>	1
<u>Project title:</u>	Formation of neuronal circuits during embryonic development

Postdoc 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 the formation of neuronal circuits. We apply molecular, genetic, biochemical, electrophysiological and histological techniques.

Language requirements:

English: IELTS 6,5 or TOEFL 95 ibt

Academic requirements:

PhD in Biology, Molecular Biology or Biochemistry

Information of the professor or research group leader:

For further information please see our homepage at the Max-Delbrück-Center.
https://www.mdc-berlin.de/1157181/en/research/research_teams/developmental_neurobiology

Please note:

In a first step the complete application should submit to the Beijing Office for evaluation by October 30, 2015. Please don't contact the professor before. He/She will get in contact with you after having received the complete application.