



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

Open Postdoc position at FUB for CSC scholarship candidates 2017

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

<u>Department/Institute:</u>	Biology, Chemistry, Pharmacy, Institute for Pharmacy, Pharmacology & Toxicology
<u>Subject area:</u>	Drug Delivery or Tissue Engineering
<u>Professor / Research Group:</u>	Prof. Dr. Sarah HEDTRICH (Ms.)
<u>Number of open Postdoc positions:</u>	1
<u>Project title:</u>	Topical Delivery of Biomacromolecules

Postdoc Project description:

We are aiming for efficient topical delivery of biomacromolecules such as peptides or proteins into human epithelia. Due to the restrictive barrier properties of human epithelia that normally restrict the penetration of biomacromolecules, smart drug delivery such as dendritic nanocarriers or nanogels will be employed. Therefore, this projects aims to identify and thoroughly characterize new delivery strategies for biomacromolecules.

Secondly, we are interested in the establishment and characterization of disease models of human skin which then serve as test platforms for basic research or for screening of drug efficacy and tolerability.

Language requirements:

- English: IELTS 6.5 or TOEFL 95 ibt.
- German: Test DaF 16 or DSH 2

Academic requirements:

Candidates should hold a PhD in Pharmaceutical sciences or in a medical field (preferentially Dermatology). Moreover, either profound experience in drug delivery using nanoparticles, ideally topical drug delivery, or in tissue engineering and biomolecular techniques (ELISA, Western blot, FACS etc.) is required. The latter would also require sound hands-on expertise in cell culture techniques ideally with primary cells.

Information of the professor or research group leader:

The Hedtrich group is a young and international research group located at the Institute for Pharmacy, Pharmacology & Toxicology. We are working highly interdisciplinary and closely collaborate with groups from the Organic Chemistry, Physics Department, Dermatology or Veterinary Department. The main research interests are targeted drug delivery to human epithelia, reconstruction of human-based normal and disease tissue models as well as new therapeutic approaches for the treatment of severe genetic skin diseases.

For more information please visit our homepage:

http://www.bcp.fu-berlin.de/en/pharmazie/pharmakologie/arbeitsgruppe_kuechler/index.html

Please note:

In a first step the complete application should be submitted to the Beijing Office for evaluation by November 6, 2016. Please don't contact the professor before. He/She will get in contact with you after having received the complete application.