



## 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>	Institute of Chemistry and Biochemistry
<b><u>Subject area:</u></b>	Regenerative Medicine
<b><u>Professor / Research Group:</u></b>	Prof. Dr. Nan MA (Ms.)
<b><u>Number of open Postdoc positions:</u></b>	2
<b><u>Project title:</u></b>	Stem cell modulation by nanomaterial

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

Stem cell therapy holds promise for treatment of degenerative disease. To improve the therapeutic efficacy, it is necessary to develop imaging agent for real-time cell tracking to further understand in vivo cell fate and modulating cell function. In the proposed project, engineered versatile nanocarrier will be fabricated to traffick in vivo stem cell fate and regulate the epigenetic state. In order to achieve an efficient stem cell derivation and real-time long-term tracking, a biocompatible nanoparticle was proposed in this project. Based on the recent establishment of surface coating technology, different sized and composition particle will be modified with both polymer and biomolecule. Based on this well established platform, we would like to develop customized multifunctioning stem cell generation and long term trafficking system.

#### **Language requirements:**

English: IELTS 6,5 or TOEFL 95 ibt  
or German: Test DaF 16 or DSH 2

#### **Academic requirements:**

Major in biology, biochemistry, bioengineering, or cell biology, or biomaterial science

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

More information on the website:

[http://www.hzg.de/institutes\\_platforms/biomaterial\\_science/biocompatibility/contact/index.php.en](http://www.hzg.de/institutes_platforms/biomaterial_science/biocompatibility/contact/index.php.en)

**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.