



## 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>	Cell Biology, Biophysics, Biochemistry
<b><u>Professor / Research Group:</u></b>	Dr. Tobias STAUBER (Mr.)
<b><u>Number of open Postdoc positions:</u></b>	1
<b><u>Project title:</u></b>	Cell biology of ion transport

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

The general interest of our group is the regulation and the cell physiological role of ion transporters and channels of the plasma membrane and intracellular organelles. In our investigations, we mainly use live-cell fluorescence microscopy (ion imaging, subcellular traffic, protein states) and biochemical assays (protein interaction, posttranslational modification), but also a range of methodologies including molecular biology, further biophysical approaches, mathematical modelling and histology of mouse models. One possible focus of the postdoc project is the function of vesicular ion homeostasis in the endosomal/lysosomal pathway. Here, how the many ion transporters and channels maintain luminal ion concentrations (e.g. pH, calcium and chloride) and investigate how they control vesicular trafficking (for Cl, see [3]). The other possible focus is the cell biology of the volume-regulated ion channel (VRAC), which we recently identified [2]. Many physiological roles have been proposed for this channel that require clarification and little is known about its structure/function and its activation mechanism [1].

Relevant publications: [1] Stauber, Biol Chem 2015; [2] Voss et al., Science 2014; [3] Stauber and Jentsch, Annu Rev Physiol 2013; [4] Leisle et al., EMBO J 2011; [5] Weinert et al., Science 2010

#### **Language requirements:**

Working language in the lab is English (requirement IELTS 6,5 or TOEFL 95 ibt). German is not required.

#### **Academic requirements:**

PhD in molecular biology, biochemistry, biophysics or a related subject.  
Experience in fluorescence microscopy and/or biochemical and biophysical assays.

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

For further information, please visit our website:

[www.chemie.fu-berlin.de/stauber](http://www.chemie.fu-berlin.de/stauber)

**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.