



## 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.

<b><u>Department/Institute:</u></b>	Department Biology, Chemistry, Pharmacy / Institute of Chemistry and Biochemistry
<b><u>Subject area:</u></b>	Radiochemistry, Radiopharmacy, Coordination Chemistry
<b><u>Name of Supervisor:</u></b>	Prof. Ulrich Abram
<b><u>Number of open positions:</u></b>	1
<b><u>Project title:</u></b>	Radioactive bioconjugates for SPECT and PET – Synthesis, chemicals characterization and biological evaluation

#### **Project description:**

The aim of the project is the synthesis of bioconjugates with radioactive metal ions such as  $^{99m}\text{Tc}$ ,  $^{64,67}\text{Cu}$ ,  $^{68}\text{Ga}$  or several lanthanides for diagnostic and therapeutic nuclear medicine. The research involves the design and synthesis of novel chelators, their coupling to peptides, carbohydrates or other biomolecules by peptide coupling or 'Click reactions'. Studies with model compounds with the long-lived isotope  $^{99}\text{Tc}$  or nonradioactive isotopes of the metals are done for full structural characterization of the compounds.

#### **Language requirements:**

The thesis can be written in German or English. The daily language in our research group is English.

#### **Academic requirements:**

Master or diploma degree in chemistry, pharmacy, physics or related fields are required.

#### **Link to professor and further information:**

<http://www.bcp.fu-berlin.de/chemie/chemie/forschung/InorgChem/agabram/index.html>

#### **Please note:**

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