



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

### Open PhD position at FUB for CSC scholarship candidates 2017

**Please note: the PhD position is only offered to Chinese PhD candidates for application in the framework of the FUB-CSC PhD Program.**

<b><u>Department/Institute:</u></b>	Institute of Microbiology and Epizootics
<b><u>Subject area:</u></b>	Microbiology
<b><u>Name of Supervisor:</u></b>	Prof. Dr. Marcus Fulde, PhD
<b><u>Number of open PhD positions:</u></b>	1
<b><u>Type of the PhD Study:</u></b>	Full-time
<b><u>Project title:</u></b>	Mechanisms of bacterial persister cell formation <i>in vitro</i> and <i>in vivo</i>

#### PhD Project description:

Bacterial infections remain a major health hazard in human and veterinary medicine. While antibiotic treatment remains the method of choice to heal bacterial infections, the emergence of bacterial resistance against antibiotics has led to a critical need for a better understanding of underlying resistance mechanisms. Bacterial persister cells constitute a genotype-independent phenomenon of therapeutic resistance. These cells exhibit a viable, but non-growing phenotype, which enables them to overcome even high antibiotic concentrations and lead to post-therapeutic relapse infections. This PhD projects aims at identifying molecular mechanisms of persister cell formation in zoonotic bacteria under *in vitro* as well as under *in vivo* conditions.

#### Language requirements:

PhD study in English is very welcome. IELTS 6.5 or TOEFL 95 ibt.

#### Academic requirements:

Microbiology, Infection and Immunity, Molecular Microbiology

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

Prof. Marcus Fulde, Head of the research group Infection Biology  
Institute of Microbiology and Epizootics, Centre for Infection Medicine  
Freie Universität Berlin

<http://www.vetmed.fu-berlin.de/einrichtungen/institute/we07/index.html>

#### Please note:

In a first step the complete application should be submitted to the Beijing Office for evaluation by January 4<sup>th</sup>, 2017. Please don't contact the professor before. He/She will get in contact with you after having received the complete application in January.