

JULIUS-MAXIMILIANS-UNIVERSITÄT WÜRZBURG, GERMANY

Research Centre for Infectious Diseases (ZINF)

PhD STUDENT Position

**“Virulence factors and regulators required during
infections with the food-borne pathogen *Campylobacter jejuni*”**



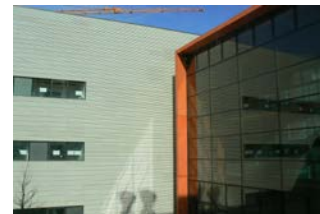
Applications are invited for a PhD student position (starting in spring/summer 2016) in the ZINF Young Investigator Group “Deep sequencing approaches to pathogenesis” (Cynthia Sharma) in Würzburg, Germany. Our group focuses on the identification and functional characterization of small regulatory RNAs (sRNAs) in the human pathogens *Helicobacter pylori* and *Campylobacter jejuni*. This project will focus on the development of novel human 3D *in-vitro* infection models based on tissue engineering to study host-pathogen interactions during *C. jejuni* infections. Deep-sequencing based approaches (e.g. RNA-seq, Tn-seq) will be employed to monitor gene expression changes of pathogen and host during the course of infection and to identify genes, including sRNA regulators, that are relevant for infection. The underlying molecular mechanisms and targets of these sRNAs will be further studied using molecular biology, genetics and biochemical approaches.

More information can be found at:

www.imib-wuerzburg.de/research/sharma/group-leader

www.uni-wuerzburg.de/grk2157/projects/p_5_c_sharma/

Applicants should have a M.Sc./Diplom degree and a strong background either in microbiology, cell biology, infection biology, molecular biology or biochemistry.



For informal inquiries contact **Dr. Cynthia M. Sharma** (sharma.ngs@uni-wuerzburg.de).

Applications from suitably qualified people from all sections of the community regardless of race, gender or disability are welcome. Preference will be given to severely handicapped persons in case of otherwise equal aptitude. Part time employment is also possible. **Please send applications** including a short letter of motivation, CV and publication list, copies of relevant documents and contact information of two academic references as a single PDF-file until **March 16th, 2016 via E-mail** to the above mentioned E-mail address.