The Transregional Collaborative Research Center 261 “Cellular Mechanisms of Antibiotic Action and Production” is a joint research program of the University of Tübingen and the University of Bonn. Within this program we work towards a better understanding of the fundamental processes of antibiotic action and production in bacterial cells. We aim to learn from the cellular mechanisms of potent antibiotics in order to better select and develop new compounds in the future. We also aim to understand how producer cells manage to conduct antibiotic biosynthesis, how they cope with the agents they produce, and what adaptations they need to make.

Two PhD positions are available in the laboratories of Thilo Stehle (Structural Biology) and Samuel Wagner (Cell and Molecular Microbiology) on:

- Structures of cellular machineries relevant for antibiotic synthesis and action (Stehle)
- Functional dissection of transport processes associated with glycopeptide antibiotic production (Wagner)

The successful candidates will drive an exciting, highly collaborative research program to elucidate the coordination of production and export of glycopeptide antibiotics such as vancomycin. They will use state-of-the-art microbiological, genetic, biochemical, or structural biology methods to jointly investigate how the glycopeptide antibiotic-producing machines are build up in Actinomyces and how the producers export the glycopeptide antibiotics efficiently.

We are looking for motivated, self-driven candidates with a background in bacterial genetics, bacterial cell biology, (membrane protein) biochemistry, or structural biology.

The successful candidates will enjoy working in a microbiology-strong environment at the University of Tübingen featuring the Cluster of Excellence “Controlling Microbes to Fight Infections” and a partner-site of the German Center for Infection Research (DZIF). In addition, they will be trained within the structured PhD program of the Interfaculty Graduate School of Microbiology and Infection Biology (IGIM).

Please submit your application to Thilo Stehle or Samuel Wagner by August 31, 2019.

For further information please contact:
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