

Master thesis “Proteome analysis of the gut microbiome of Parkinson’s disease patients”

The Medizinisches Proteom-Center (MPC) and Medical Proteome Analysis, Center of Proteindiagnosics (ProDi) at the Ruhr-University Bochum together with Department of Neurology and Complementary Medicine, Augusta Hospital, Hattingen is looking for a Master student (w/m/d) to start as soon as possible.

The MPC has an excellent infrastructure with all current, state-of-the-art technologies and methods (nano & UHPLC, mass spectrometry, FAIMS, Triversa NanoMate, laser microdissection, protein microarrays, bioinformatics, biostatistics etc.). More details about the MPC can be found at <http://www.ruhr-uni-bochum.de/mpc/>.

The project investigates positive effects of **an intestinal microbiome-oriented therapy** on the course of **Parkinson's disease** on a **molecular level**. The establishment of an **appropriate sample preparation** and **analysis workflow (including data analysis)** is the main focus of the Master thesis. The applicant will work in close collaboration with the bioinformatics/biostatistics group of the MPC.

We welcome applications from students of **biology, biochemistry, chemistry, biotechnology** or a **related field** of study with a **keen interest in medical research, cutting-edge bioanalytical methods** and **bioinformatics applications**. Besides creativity, a strong **ability for problem solving** combined with an **enthusiasm for scientific research** is highly desirable. **Teamwork** and **good communication skills, fluent English** as well as the ability to **work in an interdisciplinary field** of research are necessary.

We offer a **qualified introduction to the topic, individual supervision, work in a young and committed research team**.

As an equal opportunity employer, the RUB is committed to employing more individuals with disabilities. We therefore actively encourage individuals with disabilities to apply. We also seek to increase the percentage of female employees in areas where they are under-represented. Qualified women are therefore strongly encouraged to apply.

Applications should be sent to Prof. Dr. Katrin Marcus: katrin.marcus@rub.de. Please include your CV, a short statement on why you want to join our research group, and the names and contact details of academic referees, and combine all documents into a single PDF file.