

DFG Research Training Group (GRK 2318) "TJ-Train" offers 12 PhD doctoral student positions (E13 65 %) in Natural and Life Sciences

Of these are

- **10 positions at Charité - Universitätsmedizin Berlin**
- **1 position at MDC Berlin (Max Delbrück Center for Molecular Medicine)**
- **1 position at FMP Berlin (Leibniz-Forschungsinstitut für Molekulare Pharmakologie)**

Three project areas offer research on different aspects of tight junctions (TJ) in epithelial barrier function. Project area A comprises basic research on structure and function of TJ proteins, which provides the requirement for understanding TJ development and regulation and its role in pathogenesis of disease. Project area B focuses on the role of TJ proteins in the developing tissue and the regulation of TJ proteins and TJ assembly on different levels. Project area C focuses on modulation of TJ in infectious and inflammatory intestinal disease associated with barrier dysfunction. Information concerning the projects is available on the description of doctoral projects.

Your area of responsibility

- Planning, organization and implementation of scientific studies
- The methods are dependent on the projects and include cell culture, molecular and immunohistochemical methods, confocal microscopy, high-resolution microscopy, next-generation sequencing, experimental animal methods, knockout mouse models, electrophysiological techniques
- Independent evaluation and documentation of the results
- Writing of scientific publications
- Participation in scientific events and presentation of results at congresses
- Participation in the qualification program of the Research Training Group

Your profile

- Very good University degree (equivalent diploma/master or engineer) in biology, biochemistry, biotechnology, bioinformatics, biophysics or a related subject
- Strong scientific motivation
- Special interest in cell biology and in functional and pathophysiological-translational issues
- Very good communication and writing skills in English
- Personal initiative, skills in teamwork, organization and logistics

We offer

- Working at the Charité, one of the largest university hospitals in Europe, a joint institution of Humboldt-Universität zu Berlin and Freie Universität Berlin, and at famous research institutes in Berlin, MDC and FMP
- Research in a world-renowned center in the field of tight junction research
- An excellent scientific environment at the interface between basic and preclinical research
- Doctoral thesis associated with an excellent qualification program

Important deadlines

Application period:	until May 21, 2023
Selection for the Assessment Center:	May 31, 2023
Assessment Center:	between June 20 – 23, 2023
Decision released:	until July 14, 2023
Your decision:	until July 17, 2023
Commencement of employment:	October 1, 2023