DFG Research Training Group (GRK 2318) TJ-Train offers

12 PhD positions (E13 65 %) in Natural and Life Sciences,
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 on the project list.

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) 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
<table>
<thead>
<tr>
<th>Important deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application period:</td>
</tr>
<tr>
<td>Notification of selection results:</td>
</tr>
<tr>
<td>Assessment Center:</td>
</tr>
<tr>
<td>Decision released:</td>
</tr>
<tr>
<td>Commencement of employment:</td>
</tr>
</tbody>
</table>