



Hertie-Institut
für klinische Hirnforschung

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Hoppe-Seyler-Straße 3 · 72076 Tübingen



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PhD student in stem cell disease modelling of Parkinson's disease

Description

The Hertie Institute for Clinical Brain Research is a center of excellence that performs translational research on neurodegenerative diseases. The "Stem Cells and Parkinson's disease" group has been jointly established by the Department of Neurodegenerative Diseases within the Hertie Institute for Clinical Brain Research and the German Center for Neurodegenerative Diseases (DZNE). We are primarily interested in the molecular and cellular mechanisms underlying neurodegeneration in Parkinson's disease and stem cell based disease modelling. One Ph.D. position is available to investigate the molecular mechanisms underlying Parkinson's disease for candidates with a strong background in a relevant discipline such as Neuroscience and Cell Biology. The proposed project will address the role of mitochondrial dysfunction and calcium signaling in familial and sporadic Parkinson's disease. The research will be conducted in human induced pluripotent stem cells and will employ exciting methods including CRISPR-Cas9 genomic editing as well as high-content screening and live-cell imaging.

Your qualifications

The candidate should be highly enthusiastic and motivated to learn and perform new techniques, to independently plan and perform experiments and to present her/his work. Essential qualities required include good organizational skills, fluency in English, a strong team spirit and time management skills. Applicants should have a diploma/master degree in life sciences (Medicine, Biology, Pharmacy, Biotechnology or closely related disciplines). The candidate should have practical experience in at least many of the applied laboratory techniques including immunohistology/cytology, PCR, real time PCR (TaqMan), Sanger sequencing, Western blot, ELISA, propagation and differentiation of pluripotent stem cell lines, molecular cloning, transfection, shRNA, microscopy techniques including live-cell imaging and confocal microscopy.

Benefits

The candidate will be integrated in an interdisciplinary Graduate School teaching program. The position is immediately available, with funding for up to 3 years. Employment, payment and benefits are determined by the Public Sector Collective Agreement (TV EntgO Bund, with entry level depending on applicant's experience). The University of Tübingen and the Hertie Institute for Clinical Brain Research are equal opportunity employers. They are both committed to employing disabled individuals and especially encourage them to apply.

How to apply

Applications including a statement of research interest/experience, CV, publication list (if applicable) and two recommendation letters should be sent to the contact person, Dr. Michela Deleidi, michela.deleidi@dzne.de.