PhD Position (m/f/d) (50%, TV-L 13)
in
Stem Cell-Based Neural Reconstruction

Jointly supervised by the Institute of Experimental Epileptology and Cognition Research and the Institute of Reconstructive Neurobiology, Life & Brain Center, University Hospital Bonn.

The position is to be filled as soon as possible.

The position is embedded into a collaborative research project that investigates the high-resolution, in vivo real time monitoring of neural circuit integration of human induced pluripotent stem cell (iPSC)-derived neurons into the mouse brain as a basis for future cell replacement strategies.

The project will specifically focus on the establishment of advanced tools (eg.: virus based trans-synaptic tracing, super resolution expansion microscopy of neurons expressing neuronal activity reporters, fiber optic-based online neuronal activity imaging as well as automated AI-based segmentation and cell counting) to comprehensively assess circuit integration of iPSC cells as well as their functional properties in the context of the recipient mouse brain.

The ideal candidate is a highly motivated, team-oriented young scientist with a strong interest in neuroscience, modes of neuronal circuit formation and function, and iPSC cell-based neuroregeneration. Experience in molecular biology, animal experimentation and microscopy is advantageous.

The PhD project is part of the European Commission Initiative for “Novel Strategies for Cell-based Neural Reconstruction (NSC-REC)” and will be integrated into the BIGS Neuroscience PhD Program at the University of Bonn. This PhD program is embedded in a vibrant and collaborative research environment including the Faculty of Medicine, the Faculty of Natural Sciences and Mathematics, and high-profile research institutes such as the Caesar Research Institute of the Max Planck Association and the German Center for Neurodegenerative Disorders in the Helmholtz Association. This guarantees an optimally structured and student-centered English language Ph.D. thesis and provides a multidisciplinary research and learning environment that offers extensive support and training.

Candidates should hold a diploma or a master’s or equivalent degree in the biosciences, medicine, physics, or related fields. The University of Bonn is an equal opportunity employer. Preference will be given to suitably qualified women or persons with disabilities, all other considerations being equal.

We offer:
- The salary will be according to the German salary scale TV-L (EG 13)
- A “Jobticket” (subsidized public transport) is available
- There is also a possibility to use the day care center
- Supplementary benefits in the public sector (pension plan according to VBL)

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university. It aims to increase the proportion of women in areas where women are under-represented and to promote their careers in particular. It therefore urges women with relevant qualifications to apply. Applications will be handled in accordance with the Landesgleichstellungsgesetz (State Equality Act). Applications from suitable individuals with a certified serious disability and those of equal status are particularly welcome.
Please send your application quoting the reference number 631_2019 along with your bibliography, reprints of your most relevant publications and the names of three references until November 29, 2019 to:

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