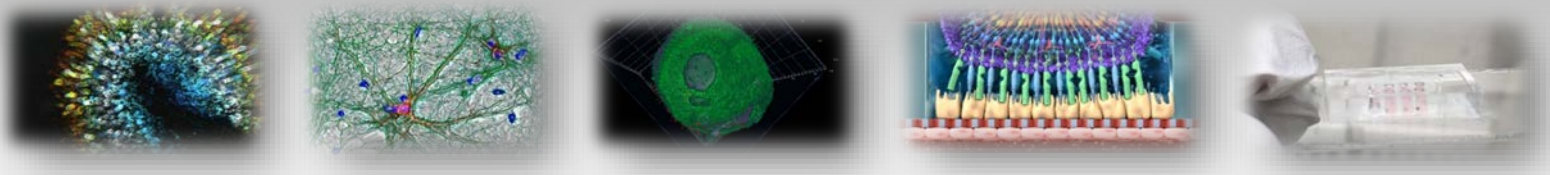

PostDoc Position

Human iPS- Organoids, Microfluidic CHIP Technology, Developmental Biology, Disease Modeling & Drug Testing

The Institute of Neuroanatomy & Developmental Biology (INDB) focuses on the investigation of human neurosensory systems including the senses of vision and olfaction. We employ human pluripotent stem cell models, differentiated *in vitro* towards 3-dimensional organoids. In close cooperation with the Fraunhofer Institute IGB in Stuttgart we have developed 3D microphysiological systems (MPS) that integrate hiPSC derived organoids inside a microfluidic device. This allows for a precise control of environmental conditions along with reduced shear stresses and reagent consumption, enabling a faster and animal free development of potential pharmaceutical compounds as well as improving modelling of retina associated diseases and embryonic development. We now aim to vascularize the respective organoids using iPSC-derived vessel systems.

Your Profile:
A highly motivated, structured PostDoctoral scientist (medicine or natural science) with a background and strong interest in stem cell biology, including culture systems of human pluripotent stem cells, cellular reprogramming towards pluripotent stem cells, genomic editing, cloning applications and a wide range of molecular-biological techniques (DNA, RNA, protein analysis, flow cytometry, immunohistochemistry, microscopy). A plus would be experience in human in vitro differentiation towards organoid cultures and/or with microfluidic systems.
The candidate should be experienced in supervision of PhD/MD-students and organization of daily lab routine, should be a communicative character with motivating team spirit, excellent presentation and organization skills, familiar with scientific project management in academic research and should be dedicated to neuroscience. Fluently spoken and written English and German is obligatory as well as software knowledge (Office, Prism, Photoshop, Powerpoint, Illustrator, Image J)
The candidate should additionally be motivated to take part in the teaching of gross anatomy, histology, cell biology and stem cell biology with a teaching workload of 4 semester periods per week. The Department of Anatomy at the University of Tübingen offers the chance for the specializations of the Facharzt für Anatomie and Fachanatom.

We offer:
A familial team spirit with excellent technical support by our advanced technicians and the surrounding core facilities as well as an outstanding range of projects in neurosensory research and a successful track record as given by recent publications. We can also offer a great research environment receiving support from various funding agencies. We guarantee an inspiring research field by daily interaction with clinical and academic research groups in Tübingen. The position is scheduled for three years with payment according to TV-L 13. Afterwards there is a performance-related prolongation option.
The Institute hosts 6 PostDocs, two lab technicians and several Medical/Master/PhD students.
Completed applications must be received no later than December 31, 2018.
Disabled persons will be preferred in case of equal qualification. The Eberhard Karls University aims at increasing the number of women in research and academic teaching and invites applications of accordingly qualified women
Please send your complete application documents (CV, references, publication list) electronically to:

Prof. Dr. Stefan Liebau
stefan.liebau@uni-tuebingen.de

INDB INSTITUTE OF NEUROANATOMY & DEVELOPMENTAL BIOLOGY

EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN