The Department of Neuroanatomy at the Institute of Anatomy and Cell Biology offers a

**PhD Student Position**

Starting Date: at the earliest possible date

Applications are invited for a 3-year PhD position to work with Prof. Andreas Vlachos (Institute of Anatomy and Cell Biology, Department of Neuroanatomy, Albert-Ludwigs-University Freiburg, Germany) and Prof. Stefan Rotter (Bernstein Center Freiburg, Albert-Ludwigs-University Freiburg) in a project aimed at creating biophysically realistic multi-scale computer models of non-invasive brain stimulation (TMS)-induced neural plasticity.

**Your task:**
- the student will combine electrophysiology and optical stimulation/imaging experiments in hippocampal tissue cultures with computational modeling approaches to assess the effects of electromagnetic fields on neural plasticity (i.e., TMS- and tDCS-induced plasticity)

**Your profile:**
- the successful candidate should have a background in neurobiology/neuroscience, engineering, physics or closely related field.
- Experience in electrophysiology, optogenetics, tissue culturing techniques and programming is highly desirable

We offer:
- visits to our collaborators in Germany, France and in the US for short-term and long-term periods of time to learn additional modeling techniques and exchange information are part of the activities in this project

The project is related to the following publications:

Please submit a single PDF file including CV, list of publications, statement of research interests and names and email addresses of three references to:

Albert-Ludwigs-Universität Freiburg
Institute of Anatomy and Cell Biology
Department of Neuroanatomy
Prof. Dr. Andreas Vlachos
Alberstr. 17, 79104 Freiburg
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General information: Salary is assigned according to a pay scale. Unless prevented by operational or legal reasons, full-time positions are generally open to those willing to job share. Where two candidates are equally suitable for a post, severely disabled candidates are given priority. Employment decisions are made by the Personnel Department.