



Postdoctoral Position at the Max Planck Institute for Biological Cybernetics in Tübingen, Germany

The Department of High-field Magnetic Resonance at the Max Planck Institute for Biological Cybernetics in Tübingen is offering a postdoctoral position under the supervision of Prof. Dr. Klaus Scheffler and Dr. Xin Yu. It is open now until filled, starting in May, 2018.

Research Description:

This research position is supported by a Joint Sino-German grant issued by the BMBF for a duration of 3 years. The research title is “*Decipher the functional phenotypes of the transgenic Parkinson’s disease (PD) mouse model using simultaneous optogenetic fMRI and MRS with calcium and dopamine dynamic signal recordings*”.

Potential assignment:

- a) Implement the MRI/EEG/calcium recording and electrochemical recording methods for global brain state monitoring.
- b) Target specific nuclei with deep brain optogenetic stimulation methods to study circuit-specific brain state neuromodulation: hippocampus, lateral hypothalamus, and VTA.

Candidates with strong computational skills are highly encouraged to apply for this position. Experience with viral transfection, or *in vivo*. / *in vitro*. electrophysiology in animal models (rodents) with brain injury is highly desirable. The candidate should bear a certain experience or strong interest in brain functional imaging, e.g. task-based BOLD fMRI. Also, the candidate will need to have FELESA training experience (or equivalent training) to independently handle animal surgeries.

The Max Planck Institute for Biological Cybernetics is located in Tübingen, Germany. The High-field Magnetic Resonance Department is equipped with a 3T, a 9.4T human MR scanner and a 14.1T animal Bruker MR scanner.

The Max Planck Society is an affirmative action/equal opportunity employer, and encourages applications from qualified women and minority candidates.

Please send your CV (in English) to Tina Schröder (*Secretarial office*):

mrzs@tuebingen.mpg.de

