



PhD-Student and Post-Doc Position, Opportunity for Practical Courses

The newly established research group 'Molecular and Systemic Neuropharmacology' at the Institute of Pharmacology and Toxicology offers a Post-Doc and a PhD-student position.

The project will focus on molecular and systemic mechanisms regulating adult hippocampal neurogenesis and on the role of new hippocampal neurons in hippocampus-dependent memory.

Adult hippocampal neurogenesis is a highly dynamic plasticity mechanism that is required for optimal processing of novel information. With our project we want to identify the signaling molecules that mediate the regulatory effects of external stimuli (e.g. environmental enrichment, exercise, reward) on hippocampal neurogenesis. To this end, we will make use of adult hippocampal stem cell cultures, inducible knockout strategies targeting genes in adult stem cells, and behavioral testing.

Candidates should have experience in at least one of the following techniques: Immunohistochemistry, Confocal Microscopy, Stem Cell Culture, Western Blot, Behavioral Training, Quantitative Morphological Analysis, Stereotaxic implantation of Stimulation Electrodes.

The group "Molecular and Systemic Neuropharmacology" is part of the Center for Behavioral Brain Sciences (CBBS) and associated with the recently established SFB779 "Neurobiology of motivated behavior". The project will be conducted in close cooperation with groups from the Leibniz Institute for Neurobiology.

Please contact: PD Dr. Ralf Stumm, Institut für Pharmakologie und Toxikologie; Leipziger Str. 44 (Haus 20). Tel: 0391 67 15871; 0391 67 15875; email: Ralf.Stumm@medizin.uni-magdeburg.de