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The **Institute of Applied Physiology at Ulm University** is offering the following position in the group of Prof. Birgit Liss (Molecular Neurophysiology):

PhD-student (m/f)

The position is offered for two years initially, however longer funding options are available. Salary according to the German TV-L system.

We offer an interdisciplinary research team with international collaborations, integrated in an exciting scientific environment. Within the SFB F-44 (<http://www.uibk.ac.at/pharmazie/pharmakologie/sfb-f44/>), and the NGFN (<http://www.ngfn-2.ngfn.de/englisch/21.htm>) we analyze function and gene-expression of individual neurons, to identify mechanisms of their metabolic dysfunction and their degeneration due to aging and disease. We focus on the dopaminergic midbrain system, on Parkinson's disease, and on analyzing cell-specific functions of ion channels, transporters and receptors (e.g. D2-receptors, K-ATP and Ca²⁺ channels). Methodologically, we combine single-cell functional analysis (retrograde tracing, *in vivo* & *in vitro* electrophysiology, MEA, calcium imaging), as well as immunohistochemistry and laser-microdissection, with cell-specific quantitative RNA and DNA analysis.

The PhD position can be embedded within the framework of the International Graduate schools for Molecular Medicine (<http://www.uni-ulm.de/einrichtungen/mm.html>) and for Aging (CEMMA, <https://www.uni-ulm.de/med/med-cemma/cemma.html>) at Ulm University.

Applicants should be highly motivated natural or medical scientists with excellent degrees in neuro-medical- or life-sciences. Team spirit, capability for independent, self-motivated and analytical work, and very good English- and computer-skills are required. Knowledge of neurophysiology, as well as technical expertise in cell-biology or electrophysiology are highly desired.

Please refer to our website for further information on our research, publications etc.:
<http://www.uni-ulm.de/med/angewphys.html>.

Interested? We are looking forward to your application (please submit copies only, applications-documents will not be returned but destroyed after the selection process). Please do not send application by e-mail. Please note that expenses related to your application can not be reimbursed. Inquiries and applications with all common documents (including two references) should be send to:

Professor Dr. Birgit Liss

Ulm University, Institute of Applied Physiology
Albert-Einstein-Allee 11, 89081 Ulm, Germany

Application Deadline: 15.01.2016

The University of Ulm actively encourages applications from female candidates in an effort to increase female representation in research and teaching. Given equal suitability for the positions, applications of disabled candidates will be given priority. The employment is made by the administration of the University Hospital in the name and on behalf of the State of Baden-Wuerttemberg.

