



A **PhD student position** is available for Research Project **A01: Activity-Dependent Regulation of Apoptosis in Developing Rodent Cerebral Cortex** in the Institute for Physiology at the University Medical Center in Mainz, Germany. We are looking for a highly motivated PhD student with a scientific interest in cellular and molecular neuroscience.

One of the current projects in our lab focuses on a better understanding of activity-dependent apoptosis in the developing rodent cerebral cortex (Heck et al. Cerebral Cortex 2008; Luhmann et al. Front Neural circuits. 2015; Weir et al. Front Cell Neurosci 2015; Blanquie et al Cerebr Cortex 2016).

The applicant will employ a combination of **electrophysiological, cellular and molecular techniques** (multi-electrode recordings, live-cell imaging, AAV-based overexpression of transgenes, optogenetics) to investigate the regulation of cell death and survival in cortical neurons by electrical activity in different types of preparations (primary cells, organotypic slices, acute slices).

The applicant should be able to work independently as well as in our international, friendly team and be interested in electrophysiological and molecular techniques. Experience in electrophysiology, cell culture, imaging or molecular biology is an advantage but not required.

The project and the position (65% salary according to TV-L ) is embedded into the framework of the CRC 1080 (<https://crc1080.com/individual-projects/>) and the local focus program translational neurosciences (<http://www.ftn.uni-mainz.de/>) . All participating institutions are equal opportunity employers and female and minority candidates are strongly encouraged to apply. The limitation of the contract is based on the legal framework defined by the "Wissenschaftszeitvertragsgesetz" and the "Hochschulgesetz" of the federal state of Rhineland-Palatinate.

Applications should be sent to Dr. Anne Sinning ([asinning@uni-mainz.de](mailto:asinning@uni-mainz.de)) and Prof Dr. Heiko Luhmann ([luhmann@uni-mainz.de](mailto:luhmann@uni-mainz.de)).

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