



## PhD student (f/m/x) - Neuroscience

The Experimental Lab of the Institute of Molecular and Cellular Anatomy at Ulm University is searching for a **PhD student (f/m/x)**.

We are a team of young international scientists studying the molecular and cellular mechanisms underlying differentiation, organization and functional integration of neurons (Simon et al., EMBO-J, 2012, Genes Brains Behav, 2016; Wiegrefe et al., Neuron, 2015; de Bruyckere et al., Front. Mol. Neurosc., 2018).

The position is immediately available. The contract is planned for 36 months, but will start with a period of 24 month.

### The project

The zinc finger transcription factor Bcl11b/Ctip2 (Bcl11b) regulates proliferation, differentiation, survival and connectivity of various neuron types within the central nervous system. Recently, patients carrying heterozygous mutations in BCL11B have been identified, suffering from developmental delay, speech impairment and autistic symptoms. There is emerging evidence for the cerebellum to be crucial not only for motor coordination but for speech and cognitive tasks, too. Alterations in synaptic plasticity of cerebellar Purkinje cells, are associated with autistic behavior. Within the cerebellum, Bcl11b it is selectively expressed in Purkinje cells. The PhD student will investigate the cellular and molecular functions of Bcl11b within the murine cerebellum.

### Your tasks

- The molecular and functional characterization of transgenic mice with IHC, in situ hybridization, classical histology, molecular biology as well as transcriptome analysis, potentially neuronal culture assays and behavioral studies.

### Your profile:

- We are looking for highly motivated, creative and reliable applicants pursuing a PhD thesis in experimental molecular neuroscience. Research experience in molecular biology and/or neuroscience will be advantageous.

### We offer:

- An innovative interdisciplinary environment
- Opportunities to develop your own ideas
- Flexible working hours possible for the realization of the combination of family and job
- Support to participate in international research conferences
- State-of-the-art technical equipment and biomedical research training programs at Ulm University.
- The possibility to become member of the IGradU (<https://www.uni-ulm.de/einrichtungen/mm/profile/vision-and-mission/>)

### Contact:

If this advertisement engaged your interest please send in a detailed CV, a letter of motivation and the contact information of two references. For further information please contact Dr. rer. nat. Franziska Seigfried via E-Mail: [franziska.seigfried@uni-ulm.de](mailto:franziska.seigfried@uni-ulm.de)

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