Westfälische Wilhelms-Universität Münster
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Job Announcement

The Institute for Neuro- and Behavioral Biology at the University of Münster invites applications for a

Ph. D. student position
(Salary Scale 13 TV-L / 65%)
on

Metabolic interactions in the Drosophila nervous system

in the group of Dr. Stefanie Schirmeier at the Institute of Neuro- and Behavioral Biology. The position will start at the earliest possible date. The contract will be fixed-term (until June 30th, 2020) with the possibility of extension. The lab aims to analyze the metabolic homeostasis of the central nervous system. Disturbance of neural metabolism is a feature of many neurodegenerative diseases. Several open questions are being addressed using the model organism *Drosophila melanogaster*: How are metabolites distributed throughout the brain? How is the amount of metabolites imported and supplied to the neurons coupled to neuronal activity? The transport proteins implicated in carbohydrate uptake and distribution are analyzed. Genetically encoded fluorescent metabolite nanosensors combined with divers gene knockdown/knockout techniques are used to unravel how metabolite distribution within the brain is regulated. The project will comprise methods of molecular cloning, state of the art Drosophila genomic engineering and microscopy techniques.

The group is located at the Institute of Neuro- and Behavioral Biology that harbors several other fly groups (Prof. Klämbt, Prof. Stanewsky, Prof. Luschnig) with whom we interact strongly (joint seminars etc.). We have full access to state of the art imaging equipment. The project is embedded in the CRC 1009 Breaking Barriers.

The prerequisite for this appointment is a M.Sc. or equivalent degree in Biology, Biochemistry or related fields. Individuals with a strong background in cell biology, developmental biology or molecular biology are encouraged to apply. Experience in Drosophila genetics and confocal microscopy would be helpful, but is not essential.

The University of Münster is an equal opportunity employer and is committed to increasing the proportion of women academics. Consequently, we actively encourage applications by women. Female candidates with equivalent qualifications and academic achievements will be preferentially considered within the framework of the legal possibilities. Disabled candidates with equivalent qualifications will be preferentially considered.

Application documents should include a motivation letter, a curriculum vitae and a grade transcript. Additionally, the applicant is expected to provide the contact details of two referees. The application deadline is **August 31st, 2017**. Applications should be sent electronically as **one single file in pdf format** to

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