

Job offer

Neuronal autophagy is especially crucial for the maintenance of axonal homeostasis as well as stress adaptation. Well-controlled autophagy becomes even more imperative in noradrenergic *Locus coeruleus* (LC) neurons with highly complex morphology and high metabolic profile. We are seeking a highly motivated Ph.D. student to address **how autophagic vesicle trafficking is controlled in noradrenergic LC neurons.**

The project requires expertise in molecular cloning, projection-specific labeling of LC neurons with retro- and anterograde viruses, 2-Photon in-vivo imaging as well as in acute slice, image processing of axonal trajectory as well confocal and TIRF microscopy. Super-resolution STED imaging and brain clearing, as well as light-sheet microscopy, will be performed within an in-house collaboration.

The suitable candidate should have a general background in cell biology and physiology. She/He should have a good understanding of molecular aspects and methodology and should be interested in state-of-the-art optical imaging techniques and employing novel optogenetic tools. This project relies on working with mice and a FELASA certificate is beneficial. Previous experience in one of the above-mentioned techniques is a plus but not a prerequisite.

We offer a stimulating and challenging scientific environment in international and dynamic teams. Equal opportunities for women and men are ensured.

Applications should include a cover letter stating research interests and previous experience, a CV and contact information of two referees. Correspondence and inquiries should be sent to Dr. Anna Karpova (akarpova@lin-magdeburg.de) and Dr. Matthias Prigge (prigge@lin-magdeburg.de).