

Internship/master thesis project in neuroscience

**6-8 months long internship and/or master thesis project at DZNE
(Deutsches Zentrum für Neurodegenerative Erkrankungen,
Feodor-Lynen-Str. 17, 81377 Munich) in the group of Prof. Dr.
Dieter Edbauer in the field of ALS research**

Are you a master student interested in neurodegenerative diseases looking for a research internship with the opportunity to couple it with a master thesis project? Would you like to take part in cutting-edge research, learning new techniques involving *in vivo* experiments?

Our laboratory focuses on the pathomechanisms of amyotrophic lateral sclerosis (ALS), a fatal neurological disorder for which there is no known cure. We are investigating its pathogenesis with the help of different mouse models for ALS. We aim to gain a better understanding of the disease pathology through studying the different molecular and cellular mechanisms that lead to neurodegeneration in the ALS-brain, e.g. the aggregation of TDP-43 and other proteins, and seek to develop effective therapeutic options.

What do we expect?

You have to be matriculated in a Master program at the Faculty of Biology at LMU. You should have an interest in neuroscience and basic experience in general lab techniques. The project involves *in vivo* experiments, so willingness to work with live mice is essential. An online course (LAS – Laboratory Animal Science) has to be taken prior working with live animals, of which the costs our lab will cover for you. A minimum length of 6 months working with us is expected.

What will you learn?

You will learn to handle mice and perform *in vivo* experiments including injecting the animals and carrying out behavior tests. You will get the chance to gain experience in a broad range of techniques during the further processing of the mouse tissue and its downstream analysis, e.g. immunohistochemical and immunofluorescence staining of mouse brain and spinal cord sections and their imaging under brightfield, fluorescent or confocal microscope as well as biochemical assays such as ELISA, PCR, RNA extraction, qPCR etc.

Are you interested?

Please send your application via e-mail to Virág Kocsis-Jutka (virag.kocsis-jutka@dzne.de), including your CV and a short introduction about yourself, why you would like to work in our lab, whether you would like to do an internship, a master thesis or both coupled, and your desired start date.