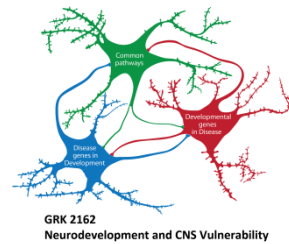


The Department of Neurology of the University Hospital Erlangen
(supervisor: Prof. Ralf Linker)

offers a Ph.D. position to study the **role of the neurodevelopmental transcription factors Sox8 and Sox10 in susceptibility and repair in demyelinating diseases.**

The position is embedded in the DFG-funded research training group 2162 “Neurodevelopment and Vulnerability of the Central Nervous System”



Our approach:

- *in vivo* model: myelin oligodendrocyte (MOG) induced experimental autoimmune encephalomyelitis (EAE) in Sox8 KO and Sox10 conditional mice
 - behavioral tests to analyze disease severity
 - histopathological and ultrastructural analyses
- *in vitro* model: organotypic cerebellar slices to study the impact of Sox8/ Sox10 loss-of-function on remyelination
- transcriptome analysis: RNA-Seq to determine molecular targets and programs of Sox8 and Sox10 after a demyelinating challenge
- Translational part: analysis of Sox8 and Sox10 expression in tissues from MS patients (qRT-PCR, in situ hybridization and immunohistochemistry)

Our location: Erlangen - a lively university town in the heart of Bavaria (Germany)

We offer:

- a structured, international Ph.D. program in an exciting and promising new research field
- close supervision and intensive mentoring by a team of internationally renowned neuroscientists
- an excellent education in neuroscience and career training (lectures, laboratory rotations, soft skills courses)
- fruitful collaborations within and outside of Erlangen (incl. laboratory visits abroad)
- retreats and international conferences

You are:

- a highly motivated student?
- enthusiastic about neuroscience and encouraged by neuroscientific challenges?
- a team player, who wants to contribute with his ideas to our exciting project?
- a M.Sc. (or equivalent) with an excellent degree in (neuro-)biology, biochemistry or related areas?

4 x yes? Then submit your applications via email to grk2162@fau.de until **12.5.2017**:

A) Please submit in a single pdf file:

- | | |
|---------------------------|-------------------------------------------------------|
| (1) Letter of motivation | (4) Summary of Research Experience and Master Project |
| (2) Curriculum vitae | (5) List of publications |
| (3) Transcript of Records | |

B) Two letters of reference:

to be sent directly by the referees to:

grk2162@fau.de; Subject: GRK2162-PhDstudent/YOUR NAME

Start date: as soon as possible

For more information visit: www.grk2162.med.fau.de

