

Inflammation-triggered glial plasticity via modulation of Sox10 in the peripheral and enteric nervous system

Institut für Biochemie, Erlangen, TV-L E 13, Teilzeit, Befristete Anstellung, Bewerbungsschluss: 27.05.2026

Aufgaben

Our group is interested in development and disease processes in glial cells of the nervous system and the role of regulatory proteins, such as transcription factors, in this context. The close connection of gut functions and nervous system was subject of active research within the last years due to its high relevance in human well-being and disease pathogenesis. In this interdisciplinary project the impact of the transcription factor Sox10 on glial plasticity in the peripheral and enteric nervous system upon gut inflammation will be analyzed by means of histological, molecular biology, biochemical as well as high throughput sequencing techniques. We work with transgenic and knock out mouse models as well as with primary cell culture and organotypic tissue cultures. This project will be conducted in close collaboration with the group of PD Dr. Jay Patankar from the department of gastroenterology of the Universitätsklinikum Erlangen and will strongly benefit from this knowledge transfer in respect to human inflammatory bowel diseases and suitable mouse models. We are looking for interested and highly motivated applicants with an educational background in biochemistry/biology/molecular medicine and with an excellent diploma or master degree.

Qualifikationen

Notwendige Qualifikationen:

Experience in the neuroscience field and practical experience in standard molecular biology, cell culture and histology techniques are desired.

Ergänzende Hinweise

We offer a qualified training and comprehensive scientific supervision within a cooperative team to guarantee an optimal start into this exciting and aspiring field of research. Additionally, the PhD student will be integrated into the Research Training Group of the Interdisciplinary Center for Clinical Research (IZKF) Erlangen. The applicant will have the opportunity to educate him-/herself on a professional as well as on a personal level and to network and work together with other PhD students and established researchers within the neuroscience community. Also, mentoring and soft skill seminars are part of the structured PhD program. For further information please visit the web site: <https://www.izkf.med.fau.de/en/nachwuchs/izkf-doktorandenakademie> Please submit all required documents as one single pdf file (maximum size 5 MB) to melanie.kuespert@fau.de before the 27th of May 2026: (1) Letter of motivation (2) Curriculum vitae (3) Transcript of Records (4) Summary of Research Experience and Master Project (5) List of publications (if applicable) (6) Two references or contact of two referees

Interessiert?

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