

PhD position (m/f/d) in Plant Molecular Biology

Regulation of plant nutrient transport during starvation

The Dröge-Laser lab offers a DFG-funded position at the **University of Würzburg, Germany**. We are looking for a talented student, preferentially with background knowledge on plant molecular biology, holding a master's degree in Biology, Biochemistry or related disciplines. The applicant will be part of a small international team focussing on plant stress signalling, transcriptional control and pathogen defence.

Project description: In plants, nutrients like carbohydrates and amino acids need to be allocated between source and sink tissues to assure sufficient supply and survival. Particularly in response to energy limiting conditions, a tight co-ordination of energy homeostasis and nutrient allocation is required. This project focussed on the regulation of nutrient transport upon starvation, combining studies on transcriptional regulation and transporter physiology. For further information see:

<https://www.biozentrum.uni-wuerzburg.de/pbio/abteilung-prof-dr-wolfgang-droege-laser/>

Methods: genome editing by CRISPR/Cas9, promoter analyses in protoplasts, transcription factor binding assays, RNAseq, ChIPseq, confocal microscopy, metabolic analyses, transporter physiology

Selected References:

Dröge-Laser and Weiste, TIPS (2018); Pedrotti et al., Plant Cell (2018); Weiste et al., PLoS Genetics (2017); Mair et al., eLife (2015); Hartmann et al., Plant Cell (2015); Weiste and Dröge-Laser, Nature Com. (2014)

The Julius-von-Sachs Institute for Plant Sciences offers an excellent, multi-disciplinary research environment applying state-of-the-art techniques in plant physiology, molecular biology, biophysics, metabolomics and eco-physiology. The successful candidate will benefit from a structured PhD education due to participation in the Graduate School of Life Sciences (GSLs), Würzburg. The University of Würzburg is an equal opportunity employer and particularly welcomes applications from qualified women and individuals with disabilities. Payment according to TV-L for 3 years.

Please, submit your complete application as one composite PDF file including a statement of motivation and two references to: wolfgang.droege-laser@uni-wuerzburg.de. **Review of applications will start immediately. Closing date: June 30th 2019.**