

Three Ph.D. student positions

Plant cell biology, development and systems biology

Three DFG-funded Ph.D. student positions are available at the Chair of Plant Systems Biology at the Life Sciences campus of the Technische Universität München in Freising-Weihenstephan.

- Cell biology of auxin transport control by regulatory protein kinases
- Control of Arabidopsis development by GATA transcription factors
- Genome-wide identification of target genes of GATA transcription factors

We are seeking three highly motivated Ph.D. students to strengthen our highly interactive and collaborative team. The specific projects integrate cell biological, developmental and systems biology approaches to understand the molecular determinants of plant growth control by AGC protein kinases and GATA transcription factors. The laboratory has expertise in a broad range of cell biological, biochemical and molecular genetic techniques as exemplified in our previous publications.

The Chair of Plant Systems Biology has direct access to state of the art technology for cell biological and biochemical analysis, next generation sequencing etc. and possesses all techniques and equipment required for state-of-the-art plant research. The laboratory also has strong ties with the LMU Munich, the University of Regensburg and the Plant Bioinformatics Institute at the Helmholtz Zentrum München.

Please send a letter of motivation and a CV to: claus.schwechheimer@wzw.tum.de

The positions will remain open until filled.

References

Website of the Chair [Link](#)

Website of the SFB924 [Link](#)

Selected recent publications

Weller *et al.* (2017) Dynamic PIN-FORMED auxin efflux carrier phosphorylation at the plasma membrane controls auxin efflux-dependent growth. **Proc Natl Acad Sci USA** 114:E887-E896. [Link](#)

Barbosa *et al.* (2016) Phospholipid composition and a polybasic motif determine D6 PROTEIN KINASE polar association with the plasma membrane and tropic responses. **Development** 143:4687-4700. [Link](#)

Klermund *et al.* (2016) LLM-Domain B-GATA transcription factors promote stomatal development downstream of light signaling pathways in Arabidopsis thaliana hypocotyls. **Plant Cell** 28:646-60. [Link](#)

Technische Universität München

Prof. Dr. Claus Schwechheimer

claus.schwechheimer@wzw.tum.de

Tel. +49 8161 712880; Fax +49 8161 712886