

Three Ph.D. student positions

Plant molecular 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.

- Genome-wide identification of target genes of GATA transcription factors
- Molecular mechanisms controlling stress responses in plants by gibberellins
- Molecular mechanisms controlling flowering time in *Arabidopsis thaliana*

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

The Chair of Plant Systems Biology has direct access to modern cell biological and biochemical analyses, 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 through the SFB924.

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

The positions are available from July 2018 and will remain open until filled.

References

Website of the Chair [Link](#)

Website of the SFB924 [Link](#)

Selected recent publications

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](#)

Bastakis *et al.* (2018) LLM-domain B-GATA transcription factors play multifaceted roles in controlling greening in *Arabidopsis*. **Plant Cell** DOI: <https://doi.org/10.1105/tpc.17.00947>. [Link](#)

Lutz *et al.* (2017) Natural haplotypes of *FLM* non-coding sequences fine-tune flowering time in ambient spring temperatures in *Arabidopsis*. **Elife** DOI: [10.7554/eLife.22114](https://doi.org/10.7554/eLife.22114). [Link](#)

Yun, Richter *et al.* (2016) Multi-layered regulation of SPL15 and cooperation with SOC1 integrate endogenous flowering pathways at the *Arabidopsis* shoot meristem. **Dev Cell** 37(3):254-66. [Link](#)

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