

Two Ph.D. student positions

Plant cell and molecular biology

Two funded Ph.D. student positions are available at the Chair of Plant Systems Biology at the Life Sciences campus of the Technical University of Munich.

- Auxin transport regulation through polarly localized protein kinases
- Gibberellin transport and transporters in seed germination

We are seeking two highly motivated Ph.D. students to strengthen our very interactive and collaborative team. The specific projects integrate molecular biological, developmental and systems biology approaches to understand the molecular determinants of plant growth by phytohormones. 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 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 immediately and will remain open until filled.

Further information

Website of the Chair: <http://sysbiol.wzw.tum.de/index.php?id=2&L=1>

Website of the SFB924: <http://sfb924.wzw.tum.de/index.php?id=3>

Selected recent publications

Marhava P, Bassukas AEL, Zourelidou M, Kolb M, Moret B, Fastner A, Schulze WX, Cattaneo P, Hammes UZ, Claus Schwechheimer*, Christian S Hardtke* (2018) A molecular rheostat adjusts auxin flux to promote root protophloem differentiation. *Nature* 558(7709):297-300. *Corresponding authors.

Weller B, Zourelidou M, Frank L, Barbosa IC, Fastner A, Richter S, Jürgens G, Hammes UZ, Claus Schwechheimer (2017) Dynamic PIN-FORMED auxin efflux carrier phosphorylation at the plasma membrane controls auxin efflux-dependent growth. *Proc Natl Acad Sci USA* 114(5):E887-E896.

Tal I, Zhang Y, Jørgensen ME, Pisanty O, Barbosa IC, Zourelidou M, Regnault T, Crocoll C, Olsen CE, Weinstain R, Claus Schwechheimer, Halkier BA, Nour-Eldin HH, Estelle M, Shani E (2016) The Arabidopsis NPF3 protein is a GA transporter. *Nat Commun.* 3;7:11486.