

PhD position in plant biochemistry and cell biology (m/f/d)

A funded PhD student position is available at the Chair of Plant Systems Biology at the School of Life Sciences of the Technische Universität München in Freising-Weihenstephan.

Regulation of the phospholipid landscape by AGC1 protein kinases

We seek a highly motivated PhD student with a strong interest in protein biochemistry and cell biology to strengthen our interactive and collaborative team. The project is founded on the well-established and highly visible track record of the laboratory in the analysis of plant growth development by AGC1 kinases.

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

The position will remain open until filled. Further information: [Webpage](#)

Selected recent publications

Bassukas, A.E.L., Xiao, Y., Kim, N., and Schwechheimer, C. (2026). PAX-regulated self-organizing polarity drives procambial strand formation. *Nature Plants* doi: [10.1038/s41477-026-02382-w](https://doi.org/10.1038/s41477-026-02382-w)

Xiao, Y., Zourelidou, M., Bassukas, A.E.L., Weller, B., Janacek, D.P., Šimura, J., Ljung, K., Hammes, U.Z., Li, J., and Schwechheimer, C. (2025). The protein kinases KIPK and KIPK-LIKE1 suppress overbending during negative hypocotyl gravitropic growth in Arabidopsis. *Plant Cell* 37, koaf056. doi: [10.1093/plcell/koaf056](https://doi.org/10.1093/plcell/koaf056).

Janacek, D.P., Kolb, M., Schulz, L., Mergner, J., Kuster, B., Glanc, M., Friml, J., Ten Tusscher, K., Schwechheimer, C., and Hammes, U.Z. (2024). Transport properties of canonical PIN-FORMED proteins from Arabidopsis and the role of the loop domain in auxin transport. *Developmental Cell* S1534-5807(24)00569-0. doi: [10.1016/j.devcel.2024.09.020](https://doi.org/10.1016/j.devcel.2024.09.020).

Graf, A., Bassukas, A.E.L., Xiao, Y., Barbosa, I.C.R., Mergner, J., Grill, P., Michalke, B., Kuster, B., and Schwechheimer, C. (2024). D6PK plasma membrane polarity requires a repeated CXX(X)P motif and PDK1-dependent phosphorylation. *Nature Plants* 10, 300-314. doi: [10.1038/s41477-023-01615-6](https://doi.org/10.1038/s41477-023-01615-6).

Marhava, P., Bassukas, A.E.L., Zourelidou, M., Kolb, M., Moret, B., Fastner, A., Schulze, W.X., Cattaneo, P., Hammes, U.Z., Schwechheimer, C., and Hardtke, C.S. (2018). A molecular rheostat adjusts auxin flux to promote root protophloem differentiation. *Nature* 558, 297-300. doi: [10.1038/s41586-018-0186-z](https://doi.org/10.1038/s41586-018-0186-z).