

1 PhD position in Plant Cell and Molecular 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.

- [Control of cell cycle progression by mechanical stress](#)

We seek a highly motivated PhD student to join our newly established, interactive and collaborative team. The project builds on a well-established and highly visible track record in the analysis of plant growth processes regulated by cell-cycle-associated kinases, and extends this expertise to a new question: how mechanical stress controls cell cycle progression.

The Chair of Plant Systems Biology has strong expertise in all relevant molecular, cell biological, biochemical, physiological and genetic techniques and access to a broad range of techniques and facilities on the TUM-Weihenstephan campus and beyond.

Please send a letter of motivation and CV to: mariana.romeiro-motta@tum.de.

The position is available from November and will remain open until filled.

Further information: [Website of the Chair](#)

Selected recent publications

Mariana Romeiro Motta, Constantin Grisam, Mona Grünewald, Belinda König, Laura Meißner, Lukas Niese, Stefan Diez, Olivier Hamant, Laura Schaedel (2025). MAP65-1/PRC1 reinforces microtubules through nucleation. [bioRxiv Weblink](#)

Mariana Romeiro Motta, François Nédélec, Helen Saville, Elke Woelken, Claire Jacquerie, Martine Pastuglia, Sara C Stolze, Eveline Van De Slijke, Lev Böttger, Katia Belcram, Hirofumi Nakagami, Geert De Jaeger, David Bouchez, Arp Schnittger (2024). The cell cycle controls spindle architecture in Arabidopsis by activating the augmin pathway. [Dev Cell Weblink](#)

Mariana Romeiro Motta, Xin'AI Zhao, Martine Pastuglia, Katia Belcram, Farshad Roodbarkelari, Maki Komaki, Hirofumi Harashima, Shinichiro Komaki, Manoj Kumar, Petra Bulankova, Maren Heese, Karel Řiha, David Bouchez, Arp Schnittger (2022). B1-type cyclins control microtubule organization during cell division in Arabidopsis. [EMBO Rep Weblink](#)