

Applications invited for a

Postdoctoral research position in plant cell biology & molecular genetics

A postdoctoral research position is available in the research group of Prof. Brigitte Poppenberger at the TUM School of Life Sciences in Freising, Germany, to investigate the impact of the steroid hormones brassinosteroids (BRs) on the molecular control of stress responses in the model plant *Arabidopsis thaliana*.

Background

Brassinosteroids (BRs) are growth-promoting hormones that play fundamental roles in developmental processes and the adaptive growth potential of plants. In addition, it is clear that the BRs take part in stress responses and the Poppenberger lab investigates molecular modes that enable for these functions.

Aims of the project

The focus of this project lies on the role of BR-regulated transcription factors in resistance against stress caused by temperature extremes in *Arabidopsis thaliana*. On the one hand up-stream events that enable for a stress activation of the transcription factors under investigation will be studied. On the other hand, modes that allow for down-stream target recognition will be addressed, using methods of cell biology, molecular biology and biochemistry, including systems biology approaches (proteomics).

Candidate skills & profile

We are looking for a highly motivated, ambitious candidate that aims for a career in science and has a strong research background in plant molecular genetics and cell biology.

Applicants preferentially have: **(1)** a Ph.D. degree in Biology or equivalent; **(2)** experience with some of the following techniques: plant phenotyping under abiotic and/or biotic stress, fluorescence microscopy, standard molecular biology techniques (qPCRs and western blotting) and methods for promoter binding studies (EMSA, LUC assays); **(3)** very good communications skills; **(4)** very good English and (at least) good German language skills, both in speaking and writing and **(5)** a strong interest in teaching and supervision of students.

We offer

(1) Work in an international team with full access to state-of-the-art infrastructure and ample of opportunity for interaction with other plant science groups on campus; **(2)** integration in a joint research project of university partners with high potential for fundamental research findings; **(3)** the opportunity to gain teaching experience at a world-class university; and **(4)** a postdoctoral research position for 3 years, starting as soon as possible, with a salary in accordance to TV-L E13.

How to apply

Please send your application (in a single file in pdf format) by email to Prof. Brigitte Poppenberger (brigitte.poppenberger@tum.de). The application should include a letter of motivation and a CV+list of publications.

The deadline for applications is the **15th of September 2021**.