

# PhD Position in Receptor-kinase-mediated Cell Wall Integrity Signaling

A Ph.D. position in molecular plant cell biology is available in the lab of Prof. Kay Schneitz, Dept. of Plant Developmental Biology, Technical University of Munich in Freising/Germany.

Plant cells are encapsulated by a semi-rigid and biochemically complex cell wall. Cell wall remodeling is central to cell growth as well as the response to biotic or abiotic stresses. The molecular mechanism monitoring cell wall integrity in plants is poorly understood. Recent data from our lab revealed that signaling mediated by the *Arabidopsis* receptor kinase STRUBBELIG (SUB), previously known for its function in controlling morphogenesis, plays a central role in this process (1-5). The successful candidate will investigate how SUB signaling controls the response to cell wall damage. Preferred starting date is spring/early summer 2020 but is negotiable. The lab is part of the Collaborative Research Centre SFB924 ([sfb924.wzw.tum.de](http://sfb924.wzw.tum.de)) and thus funding is at the usual TV-L E13/2 level. Requirements are e.g. a German masters (with a mark of 2.5 or better), a French DEA (a final average of 13 or more), or a masters thesis.

We are looking for a highly motivated scientist well-trained in molecular and cell biology with a strong interest in interdisciplinary work at the interface of plant cell and developmental biology and the response to stress. The person should have excellent problem-solving skills and be able to work independently. Fluency in English is a must. Freising is located about 35 km to the north of Munich. Munich is a lively, cosmopolitan city close to beautiful lakes and the Alps. For further information please contact Kay Schneitz ([kay.schneitz@tum.de](mailto:kay.schneitz@tum.de)) and visit the webpage ([plantdev.wzw.tum.de](http://plantdev.wzw.tum.de)).

- (1) Chevalier et.al. 2005 PNAS 103: 9074-9079.
- (2) Vaddepalli et.al. 2014 Development 141: 4139-4148
- (3) Vaddepalli et.al. 2017 Development 144: 2259-2269
- (4) Gao et.al. 2019 J Exp Bot 70:3881-3894
- (5) Chaudhary et.al. 2020 PLoS Genetics 16: e1008433

Please submit your application as a single PDF file by email to [office.plantdev@wzw.tum.de](mailto:office.plantdev@wzw.tum.de). TUM is an equal opportunity employer. Applicants with disabilities are treated with preference given comparable qualifications.

For further information please contact:

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