



GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN

The Department of Plant Cell Biology at the Schwann-Schleiden Research Center for Molecular Cell Biology, University of Göttingen offers a

PhD position in Plant-Microbe Interaction Biology / Plant Immune Signaling

The position is DFG-funded and available for three years (**EG 13 TV-L (50%)** on the German pay scale; the appointment level reflecting qualifications and experience). We are looking to fill the position at the earliest possible date.

The department headed by Prof. Volker Lipka is interested in the molecular analysis of plant microbe interactions. Recently, an *Arabidopsis* mutant was identified that shows enhanced resistance to powdery mildew fungi and altered post-translational processing of the receptor kinase CERK1 (Petutschnig et al., 2014, New Phytol. 204(4):955-67). In order to identify genes that function downstream of the receptor kinase and/or are required for increased resistance, a suppressor screen was initiated. The PhD candidate will

- *characterise a suppressor mutant that has already been mapped regarding its pathogen phenotype and immunity related signal transduction.*
- *characterise the properties of the protein affected in the suppressor mutant, such as protein activity, functional domains and subcellular localization.*
- *identify and map additional suppressor mutants.*

The project will involve pathogen infection experiments, genetic analyses, next generation sequencing, molecular cloning and mutagenesis, plant transformation, biochemical techniques for characterization of proteins, subcellular fractionation and cell biological methods such as confocal laser scanning microscopy.

Applicants should be highly motivated and show a strong interest in plant biology. They should also have basic experience in plant molecular biology or cell biology.

Our lab is located within the Schwann-Schleiden Research Center for Molecular Cell Biology at the North Campus of Göttingen University and is equipped with state-of-the art equipment and growth chamber facilities.

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for female scientists and scholars. Qualified women are therefore strongly encouraged to apply. Disabled persons with equivalent aptitude for the position will be favored.

Please send your formal application with the usual documents, quoting reference number **VL1-2015** by e-mail to Anja.Auspurg@biologie.uni-goettingen.de or by post to **z.Hd. Anja Auspurg, Georg-August-University Göttingen, Schwann-Schleiden Research Center for Molecular Cell Biology, Department of Plant Cell Biology, Julia-Lermontowa-Weg 3, D-37077 Goettingen. The closing date is 15 October 2015.**

Informal enquiries about the position are encouraged via vlipka@gwdg.de (website <http://www.uni-goettingen.de/de/33181.html>).

We request that you send us copies of your application documents, as no returns will be made. We will destroy the documents after a holding period of five months. Application documents will only be returned to you if you provide a self-addressed adequately stamped envelope.

