

PhD position Molecular Plant Sciences

available under the umbrella of the ScienceCampus Halle – Plant-based Bioeconomy in the collaborative project “**INDUCEPROT – Induced Accumulation of Recombinant Proteins in Barley Endosperm**”. The project is based on proteolysis-mediated protein accumulation in plants and brings together expertise from three labs around Halle (Saale): Nico Dissmeyer, Leibniz Institute of Plant Biochemistry (IPB) and University of Osnabrück (UOS), [Götz Hensel](#), Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), and [Marcel Quint](#), University of Halle (MLU).

Our lab is interested in mechanistics and applicoation of conditional proteolysis via the N-Degron Pathway, see [Faden et al. 2016 Nature Commun](#); [White et al. 2017, Nature Commun](#); [Faden et al. 2019, Plant Physiol](#); and [Dissmeyer 2019 Annu Rev Plant Biol](#). The bench is located and project will be started at the [Chair of Crop Physiology](#), MLU and the project will be supervised by both Nico Dissmeyer, UOS, and Marcel Quint in close collaboration with Götz Hensel, IPK. Financing comes from EFRE and, in the third year, from UOS. For more details, please consult ipb-halle.de/en/career/job-vacancies/ and dissmeyerlab.org.

You must hold a degree in Life Sciences or related, have practical experience in the lab, a high level of initiative and interest, relevant knowledge of standard methods of molecular biology and protein biochemistry. Knowledge of molecular plant work is a plus.

Aim of the project is to establish and develop techniques and applications of Synthetic Biology and Molecular Farming for production of recombinant proteins in plants. This includes e.g. expression studies of pharmaceutically relevant proteins in Arabidopsis, tobacco, barley, etc. Comparative analysis of protein degradation pathways by posttranslational modifications in plants and the influence of temperature on protein modifications will be central part of the project.

Please mail your application with the usual documents, particularly a motivation letter and CV highlighting practical experience in the lab, as one file until **January 05, 2020** to bewerbungen@ipb-halle.de.

We are looking forward to receiving your application!

For questions, please email Prof. Nico Dissmeyer (nico.dissmeyer@ipb-halle.de).