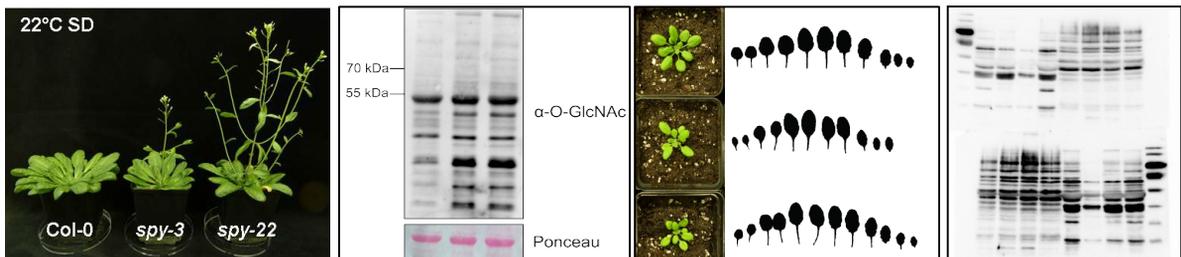


Master thesis

Protein O-Glycosylation and plant development



IMPB
Institute of
Molecular
Plant Biology



O-glycosylation of nuclear and cytosolic proteins is an essential post-translational modification that regulates signaling pathways in the course of plant development. We are studying the effect of this type of glycosylation on different aspects of plant development (such as flowering time, shoot branching and leaf size), and how it is regulated by interaction with lectins.

We are looking for Master students with background in molecular biology / biochemistry and an interest in plant biology, to study either the interaction between two different O-glycosyltransferases and a family of transcription factors, or interaction between cytosolic lectins and O-glycosylated proteins.

Techniques include yeast-two hybrid assays and co-immunoprecipitation, analysis of reporter-lines to study the effect of O-glycosylation on the function of transcription factors, and cloning of constructs to generate plant lines lacking a number of specific plant lectins, using the CRISPR-Cas9-system.

Duration: 6 months.

If you are interested, please send a letter of motivation and your CV to:

doris.lucyshyn@boku.ac.at

<https://boku.ac.at/en/dagz/lucyshyn>