

Vienna and Tulln, April 2024

PhD position at the Institute of Biotechnology in Plant Production, BOKU University, Campus Tulln, Austria

Wheat Dwarf Virus Resistance

Insect-transmitted cereal viruses are 'winners' of climate change.

The project aims to develop tools and new breeding lines with **Wheat Dwarf Virus (WDV) Resistance**

1) Genetic variation in advanced breeding material by field phenotyping and genotyping a series of modern wheat breeding lines followed by a GWAS.



Variation for WDV symptoms in the wheat field

2) Marker assisted selection of new cultivar candidates harbouring the WDV resistance QTL *Qwdv.ifa-6A* (doi: 10.1007/s00122-023-04349-3) and field validation of selection response.

Requirements

- Master degree in agricultural sciences, biology, genetics, mathematics or a related discipline
- Passion for plant breeding, including field phenotyping and modern data analysis
- Knowledge in statistics, quantitative genetics, plant breeding or animal breeding
- Experience in statistical programming in R, Julia, Python or similar languages
- Proficiency in English
- Team orientation, ability to work independently, endurance and enthusiasm for breeding

We offer

Attractive working environment in an international and renowned working group

Perform your PhD as member of the BOKU doctoral school AgriGenomics

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Part time contract with a net salary of € 1962 per month (14 times per year), according to the regulations of BOKU. Funding will be available for 36 months. Planned starting time: September 2024. The position will be filled as soon as a qualified candidate has been found.

For further information please contact Prof. Dr. Hermann Buerstmayr

E-mail: hermann.buerstmayr@boku.ac.at, phone: +43 1 47654 97101

Send your application with the reference code "**WDV**" (motivation letter, cv, names of 2 referees, degree certificate) preferable in electronic form to: plant.breeding@boku.ac.at ; or to: University of Natural Resources and Life Sciences, Vienna, Institute of Biotechnology in Plant Production, Prof. Dr. Hermann Buerstmayr,

Konrad-Lorenz-Straße 20, 3430 Tulln an der Donau, Austria

<https://boku.ac.at/en/ifa-tulln/institut-fuer-biotechnologie-in-der-pflanzenproduktion>