Vienna and Tulln, April 2024

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

Climate Resilient Durum Wheat

Durum wheat is a food crop with increasing importance, but it suffers from increasing stresses. We address two major stresses here: Fusarium head blight (FHB) and wheat dwarf virus (WDV).

Work-packages:

i) Genetic and phenotypic analysis of a new four parent MAGIC population descending from a combination of modern cultivars with WDV resistance crossed with FHB resistant lines.

ii) Selection of climate fit durum wheat cultivar candidates in large segregating populations through rigorous phenotypic field selection. Selected lines will be DNA fingerprinted and analysed for selection signatures (reverse predictions).



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

https://boku.ac.at/docservice/doktoratsstudien/doktoratsschulen/agrigenomics

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 "**DURUM**" (motivation letter, cv, names of 2 referees, degree certificate) preferable in electronic form to: <u>plant.breeding@boku.ac.at</u>; 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 <u>https://boku.ac.at/en/ifa-tulln/institut-fuer-biotechnologie-in-der-pflanzenproduktion</u>

