

Postdoc position in Centre of Plant Structural and Functional Genomics of IEB Olomouc, Czech Republic.

Centre of Plant Structural and Functional Genomics is multidisciplinary group and encompasses several areas including chromatin structure, cytogenetics, genomics, genetic and physical mapping, gene cloning, gene functional characterization and validation. The team led by Miroslav Valárik aims to understand interaction between hosts (wheat, barley and pathogen (powdery mildew) and map, clone and characterize genes involved in the interactions.

Work description:

Genes introgressed into wheat genome from related species are vital source of new traits. Recently a powdery mildew resistance gene *QPm-tut.4A* was introgressed in to wheat genome from *T. militinae*. The gene locus was high-density mapped and candidate genes were identified.

The aim of the research project “Identification and characterization of *T. militinae* gene responsible for wheat APR resistance against powdery mildew” is to validate the *QPm-tut.4A* gene and characterize its function. The work is supported by Czech Grant agency. The gross salary is 420 000 Kc (~ € 16500) + benefits.

Desired skills:

- We seek highly motivated individuals interested in plant functional genomics and host-parasite interactions.
- The successful candidate should have experience in molecular biology, plant management and bioinformatics.
- Good communication skills in English are required.

Application:

The application should include:

- Motivation letter describing your research interests and your personal rationale for applying for this position.
- In addition, it should include an outline of your relevant current knowledge and skills, indicating how these will be useful for the research project (max.300words).
- A detailed CV that includes all relevant experiences.
- Official transcripts (in English) of your higher education qualifications. Names, addresses and phone numbers of two referees.

Supervisor: Dr. Miroslav Valárik

The application should be submitted as a single pdf file sent to Miroslav Valárik (valarik@ueb.cas.cz). Applications can be submitted before April 30th 2018