Post-Doc Position Available

HORMONAL REGULATION OF PLANT CELL WALL PROPERTIES AND STRESS RESPONSE

We are interested in the study of plant hormonal signaling pathways, particularly cytokinins (CKs) in the development of model plant Arabidopsis thaliana (1-3), for more details see here. Ours’ and others’ data show importance of cytokinins in the control of cell wall properties, potentially controlling (a)biotic stress response (4, 5). The goal of the work to be performed in frame of project recently granted to Hejatko lab is to determine i) the molecular mechanism allowing cytokinin-mediated control over secondary cell wall formation, ii) the role of hormonal-regulated dirigent genes (AtDIRs) in the control of cell wall properties and/or stress response in Arabidopsis. The work will include applying bioinformatics, molecular biology, genomics, advanced microscopy and phenotyping approaches. Phenotyping will be performed in a collaboration with Photon Systems Instruments, Ltd. employing their PlantScreen™ phenotyping platform.

We offer

- Interesting position for up to 4 years (extension possible) in a dynamically expanding research institute
- Challenging project with the publication anticipated in top-ranked international journals
- Friendly lab staff, world-class equipment, attractive environment of novel university campus at CEITEC MU, help with both intellectual and practical problems
- Competitive salary corresponding to the work efficiency

We expect

- High motivation to perform creative basic research
- Excellent publication record
- PhD degree and in Biochemistry, Molecular Biology, Genetics or related fields
- Candidates should be team players, have good communication skills and good knowledge of the English language

The position is available from January 2019.

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References