

# PhD position in plant hormone research

4-year funded PhD position in Laboratory of Hormonal Regulations in Plants at the Institute of Experimental Botany of the Czech Academy of Sciences

## The importance of reduced forms of cytokinins during reproductive development

Cytokinins (CK) are important morphoregulatory compounds in plants. Several CK subgroups are known, one of which differs from all others by its reduced (saturated) isoprenoid side chain. While local concentration maxima of non-reduced CK regulate a myriad of processes in plant development, reduced CK show niche patterns of biosynthesis and accumulation, mainly during reproductive development. The aim is to investigate the physiological significance of this unique group of reduced cytokinins - dihydrozeatins. In particular: to define the tissues and developmental stages characterized by a high accumulation of reduced CK, to characterize and manipulate the molecular background underlying the biosynthesis of dihydrozeatins, gaining further insight into their developmental significance. The results will decipher the unique role of these developmentally-specific cytokinins in plant reproduction and organogenesis.

### What we offer

- work on a competitive project in a young, international and inspiring team.
- funding by TANGENC Operational Program
- Ph.D student salary (University scholarship and a grant contract at the IEB), social and health insurance and additional benefits

### Who we are looking for

- highly motivated independent individuals, team players interested in plant hormone biology.
- candidate should hold MSc./Mgr./Ing. or equivalent degree with a background in plant biology.
- experience with biochemistry, plant physiology, molecular and cell biology.
- Please submit your CV, motivation, research experience and contact.

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