

Postdoctoral position in insect olfaction

The candidate will participate on experiments aimed to understand the odor perception and mechanisms of odor coding in *Ips typographus* using deorphanization of olfactory receptor neurons (ORN) in *Drosophila* empty neuron system (DREAM). We are looking for a dedicated PhD with expertise in electrophysiology. Previous experience in chemical ecology, insect sensory physiology or molecular biology is welcomed. Research is part of Project Extemit-K aiming to investigate the impact of climatic change on olfactory landscape of spruce bark beetle *Ips typographus* (<https://www.fld.czu.cz/en/r-9415-science-research/r-9535-projects/r-12135-external-projects/r-13683-projects-of-excellent-science/r-12251-project-extemit-k>)

Minimal 2 year position, salary (based on the experience of the candidate, min 50 000 CZK)
Candidates should send CV and letter of motivation to Blanka Kalinová Kalinová@fld.czu.cz, Ewald Grosse-Wilde ewald.grosse.wilde@gmail.com or Fredrik Schlyter, fredrik.schlyter@slu.se

Key publications in the area

- Andersson M, Grosse-Wilde E, Keeling CH I, Bengtsson J.M., Yuen MS, Li M, Hillbur Y, Bohlmann J, Hansson BS and Schlyter F. 2013 Antennal transcriptome analysis of the chemosensory gene families in the tree killing bark beetles, *Ips typographus* and *Dendroctonus ponderosae* (Coleoptera: Curculionidae: Scolytinae) BMC Genomics 2013 (14):198, DOI: 10.1186/1471-2164-14-198 by the host group)
- Koerte, Sarah & Keeseey, Ian & Khallaf, Mohammed & Cortés Llorca, Lucas & Grosse-Wilde, Ewald & Hansson, Bill & Knaden, Markus. (2018). Evaluation of the DREAM Technique for a High-Throughput Deorphanization of Chemosensory Receptors in *Drosophila*. Frontiers in Molecular Neuroscience. 11. 366. 10.3389/fnmol.2018.00366.
- Grosse Wilde E: Chemoreceptors in Evolution 2017 chapter in book Evolution of nervous system. pp 245-255, DOI: [10.1016/B978-0-12-804042-3.00021-X](https://doi.org/10.1016/B978-0-12-804042-3.00021-X)