PHD POSITION!

Plant RAD60 in SUMO-dependent genome stability signaling

PROJECT DESCRIPTION:

The project will focus on the functional characterization of a newly discovered plant homolog of the RAD60 protein, a putative **mediator of SUMO-dependent genome stability pathways**. The PhD candidate will investigate how **RAD60 contributes to SUMOylation-dependent signaling during the DNA damage response** and how this impacts chromatin organization and genome stability in Arabidopsis.

Our central question is how SUMOylation modulates the DNA damage responses, a phenomenon only poorly described in plants (Dvorak Tomastikova *et al.,* 2023).

Keywords: DNA damage, Arabidopsis, SUMO, proximity labelling

What we need from you:

- Master's degree in molecular biology or a related field
- Solid hands-on experience with basic molecular biology and/or plant experimental work
- Strong motivation for experimental research in genome stability
- Good written and spoken English, the ability to work independently and in an international team.

What we'll give you:

- Ph.D. student salary (University stipend + 0.8 contract at the Institute of Experimental Botany), social and health insurance, 25 days of vacations and other benefits
- Work in an active, collaborative group studying how chromatin factors control plant development, stress resistance, and genome stability.
- Access to multidisciplinary community of SUMO researchers across Europe for collaborations

Send CV and motivation letter to Eva Dvorak Tomastikova **tomastikova@ueb.cas.cz**

Scan me to know more!

Pecinka group website: olomouc.ueb.cas.cz/en/research-groups/pecinka-group
Bluesky :(@pecinka-grp.bsky.social, @EvaDT6.bsky.social)