



Application deadline: Nov 15, 2020

Website: <http://structplantbio.org>
<https://twitter.com/structplantbio>

Send a single .pdf file containing

- 1 page motivation letter
- 1 page summary of past research
- 2 page CV including publications
- contact details for 2-3 referees

to Michael Hothorn
michael.hothorn@unige.ch

Project-relevant publications:

Ried et al., *Inositol pyrophosphates promote the interaction of SPX domains with the coiled-coil motif of PHR transcription factors to regulate plant phosphate homeostasis.* **bioRxiv**
doi: 10.1101/2019.12.13.875393

Zhu et al., *Two bifunctional inositol pyrophosphate kinases/phosphatases control plant phosphate homeostasis.* **eLife**, 2019

Wild et al., *Structural and functional characterization of eukaryotic SPX domains as inositol polyphosphate sensors.* **Science**, 2016

Postdoc position: Structural biology of inositol pyrophosphate signal transduction.

The project

An ERC consolidator grant funded postdoc position (for up to five years, starting salary is 81,300 CHF) is available in the group of Michael Hothorn at the University of Geneva, Switzerland. The successful candidate will employ quantitative biochemistry and structural biology to dissect how inositol pyrophosphate signaling molecules interact with novel signaling proteins and protein complexes to control eukaryotic phosphate homeostasis and plant development.

We offer

We are a collaborative, multidisciplinary team interested in cell signaling. The group has a strong background in protein crystallography, quantitative biochemistry, genetics and cell biology. State-of-the-art equipment for eukaryotic protein production (insect cell expression), protein purification (6xFPLCs, 1xHPLC), biochemical analysis (2xITCs, SPR/GCI, SEC-MALLS) and structural characterization (crystallization platform, Talos Arctica) is available in the lab and department. English is the working language of the laboratory and institute.

Your profile

We are looking for a highly motivated candidate with a PhD in structural biology and biochemistry. You are less than 12 month post-PhD with a proven track record (one+ first-author paper) and a keen interest in signal transduction mechanisms. PhD students approaching their thesis defense are encouraged to apply. Excellent oral and written communication skills are required.



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