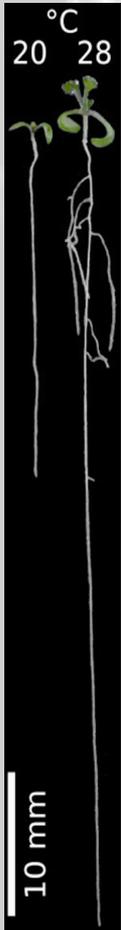


Phd student position on root thermomorphogenesis @QuintLab, Uni Halle



Interested in root biology?

In a project funded by the Deutsche Forschungsgemeinschaft (DFG) we are looking for a PhD student (65 %, payscale E13, 3 years) to better understand how *A. thaliana* translates temperature stimuli to root growth responses. We have recently found that roots are able to perceive high ambient temperature, activate auxin biosynthesis which relays this temperature information to the root apical meristem where it accelerates cell division rates, thereby promoting root growth (Ai *et al.*, *EMBO J*, 2023). Employing a combination of cell biology, physiology, genetics, single cell transcriptomics and modeling, we will focus in this collaborative project on understanding the effect of temperature on the auxin transport machinery.

Requirements:

- Scientific University degree (Diploma/ M.Sc.) in biology, or a related field: graduated or about to graduate

- Hands-on experience in Molecular Biology techniques
- Genuine interest in molecular mechanisms
- Enthusiasm for cell biology and microscopy is an asset
- Motivated to work in an interdisciplinary team as well as the capability to work independently

Previous work: e.g., *EMBO J*, e111926 (2023); *JXB* 72, 7345 (2021); *Plant Phys* 180, 757 (2019); *Curr Biol* 28, 303 (2018); *Nat Plants* 2, 15190 (2016)

Contact + info: M. Quint, marcel.quint@landw.uni-halle.de, <https://quintlab.landw.uni-halle.de/>

Application deadline: 2023-05-30

Starting date: flexible

Please send the usual application package (refer to **Reg.-Nr. 5-4413/23-D**) including cv, copies of certificates, a motivation letter and contact info for references as a single pdf to marcel.quint@landw.uni-halle.de.

Modern, interconnected, conscious of tradition:

Martin Luther University Halle-Wittenberg (MLU) is the oldest and largest university in the State of Saxony-Anhalt with a history dating back more than 500 years. Today more than 20,000 students are enrolled at the university. MLU's core research areas are in the nanosciences and biosciences, the Enlightenment, as well as in social and cultural research. The university is also home to a range of small disciplines, some of which can be found nowhere else in Germany. The university has excellent national and international ties, and works closely together with leading research institutes, industry, and more than 250 universities around the world.

