

# Postdoctoral position in root biology

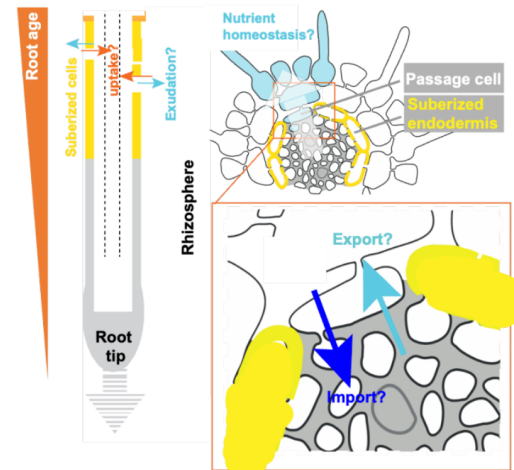
Andersen lab University of Zurich  
Department of Plant and Microbial Biology

We are seeking a postdoctoral researcher to join The Andersen group at the University of Zurich within a newly funded SNSF project on root–environment interactions.

## The research

Our group studies how root development and barrier formation shape nutrient exchange and interactions with beneficial microorganisms. We use *Arabidopsis thaliana* and *Lotus japonicus*, combining molecular genetics with imaging and single-cell approaches.

The project will be developed around the successful candidate's expertise and interests and may focus on either model system.



Spatial organisation of root barriers and passage cells.

## Essential requirements

- A PhD in plant biology, molecular biology or a related field, completed by the start date.
- Hands-on experience in plant molecular genetics, including molecular cloning and genetic or gene expression analysis.
- A strong interest in applying single-cell and single-nucleus approaches to physiological questions.
- Evidence of independent experimental design, quantitative data analysis and scientific communication, for example through publications or preprints.
- Good written and spoken English, careful experimental practice and a collaborative approach.

## Desirable experience

Experience generating or analysing single-cell or single-nucleus transcriptomic data is particularly desirable. A background in legume biology is advantageous. Experience with confocal microscopy, quantitative image analysis, plant–microbe interactions or R/Python is also advantageous.

## What we offer

**The position is initially offered for two years, with the possibility of extension.**

Our lab at UZH's Botanical Garden offers technical support and access to imaging, genomics and metabolomics facilities. You will have scope to develop your own ideas, work with international collaborators and gain experience in student supervision, with regular scientific guidance.

## How to apply

Please send a motivation letter outlining your interests and relevant experience, a CV with publications, and contact details of two referees as a single PDF to [tonni.andersen@botinst.uzh.ch](mailto:tonni.andersen@botinst.uzh.ch). Informal enquiries or questions are welcome. **Deadline for application is Nov 1<sup>st</sup>.**

Group website: [botinst.uzh.ch/en/research/andersen.html](http://botinst.uzh.ch/en/research/andersen.html)

We welcome applications from candidates of all backgrounds.