



The **geislerLab** at University of Fribourg (Switzerland)  
seeks for



## 2 talented PhD students

to pursue two SNF-funded projects in the field of ABCB-mediated auxin and brassinosteroid transport. **Project 1** deals with the identification of factors determining ABCB substrate specificity, while **project 2** centers around the establishment of ABCB-type auxin/brassinosteroid activity sensors. Both projects will be performed in tight collaboration with the groups of **R. Roelfsema** (University of Würzburg), **G. Grossmann** (HHU Düsseldorf) and **Matyas Fendrych** (Charles University Prague).

### We expect:

- a Master's degree in Biology or Biochemistry or a related subject
- good knowledge in (molecular biology and/or biochemistry (imaging experience is a plus)
- highest motivation and an open-minded, honest character

### We offer:

- a competitive but pleasant work ambience
- a functional group with established core techniques
- direct supervision
- a very competitive Swiss salary
- best lab music in the world

Please send your **application** containing:

- a letter of motivation
- a preference statement for one of the 2 projects
- a CV (including picture)
- names and e-mail of 2 references

to me ([markus.geisler@unifr.ch](mailto:markus.geisler@unifr.ch)) by **31st May 2025** (start of projects: July 1, 2025)

### Key references:

Xia, X., Siffert, A., O., T., Banasiak, J., Pakula, K., Ziegler, J., Rosahl, S., Ferro, N., Jasinski, M., Hegedus, T., and Geisler, M.M. (2024). A key residue of the extracellular gate provides quality control contributing to ABCG substrate specificity. *Nature Comm* (in press)

Geisler MM and Dreyer I (2024) An auxin homeostat allows plant cells to establish and control defined transmembrane auxin gradients. *New Phytologist* (in press: doi: 10.1111/nph.20120)

Geisler MM (2024) Embracing substrate multispecificity in plant ABC transporters. *Molecular Plant* 17, 990–992

Aryal B, Xia J, Hu Z, Stumpe M, Tsering T, Liu J, Huynh J, Fukao Y, Glöckner N, Huang HY, Sáncho-Andrés G, Pakula K, Ziegler J, Gorzolka K, Zwiewka M, Nodzynski, T, Harter K, Sánchez-Rodríguez C, Jasiński M, Rosahl S and Geisler MM (2023) A LRR receptor kinase controls ABC transporter substrate preferences during plant growth-defense decisions. *Curr. Biology* 33(10): 2008