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Advanced Grant of the
European Research Council



The Krämer lab invites applications for several Postdoc and PhD student positions

to contribute to understanding **local adaptation in plants**. The positions are on a TV-L 13-basis and funded by an **Advanced Grant** of the **European Research Council**.

We are looking for lab members with strong expertise and excellence in **genomics, bioinformatics, statistical genetics, population genetics, quantitative genetics, large-scale phenotyping of physiological traits, fieldwork** or **transcriptional networks**. We welcome researchers of diverse backgrounds, experimental and field biologists as well as those purely engaging in computational and quantitative statistical analysis of large genomic, phenotypic and environmental datasets.

The **extremophile** heavy metal hyperaccumulator species *Arabidopsis halleri* is a central model species in our lab. We have developed a large set of **tools** and **resources** for studying this **close Arabidopsis relative** and representative of a **self-incompatible diploid stoloniferous perennial**. We have a large biodiversity collection of more than 800 living *A. halleri* individuals, comprising an enormous range of within-species **phenotypic and genetic diversity**. Large-scale **phenotypic, sequencing-based transcriptome** and **genotyping datasets** are available in the lab, and we plan to expand from these substantially in the upcoming work.

A keen interest in exploring **novel biology** and the willingness to work with and think about **large datasets** is a requirement. You will be eager to **work creatively** and **take responsibility** in an **international team of researchers** of different scientific backgrounds. For computational work, thorough knowledge and practical experience in programming using **R/bioconductor** and **Python** or **Perl** are required. Experience in the analysis of **2nd generation sequence data, transcriptional networks** as well as in database handling, server administration, data management and/or webpage programming will be highly advantageous. For experimental work, we expect thorough skills in one or several of the following: **plant cultivation** and **physiology, large-scale phenotyping, genetics, molecular biology** and **transcriptomics**.

Our **laboratory, office** and **plant growth infrastructure** is large and **outstanding**, and we have substantive excellent **gardener** and **technical support**. **Ruhr University Bochum (RUB)** is among the leading research universities in Germany. As a modern reform-oriented University hosting ca. **40,000 students**, RUB bundles the entire scope of scientific disciplines on a **single campus**. Bochum is a **medium-sized city** of around 300,000 inhabitants positioned in the **heart of Central Europe**, at the southeastern edge of the large Rhein-Ruhr metropolitan region of more than **5 million inhabitants**. Bochum has an **excellent** short- and long-distance **public transport infrastructure**. **Nature**, with fast access to nearby **forests** and **mountains**, is as close as the **larger cities**, for example **Essen** (10 minutes), **Dortmund** (10 minutes), **Düsseldorf** (30 minutes) and **Cologne** (1 h). The University has outstanding **family support** and day-care facilities.



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