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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