

Faculty of Mathematics and Natural Sciences

# Postdoc (f/m/d) - Plant population genetics and quantitative genetics

Institute for Plant Sciences | CEPLAS

The University of Cologne is one of the largest and most research-intensive universities in Germany, offering a wide range of subjects. With its six faculties and its interfaculty centres, it offers a broad spectrum of scientific disciplines and internationally outstanding profile areas, supported by the administration with its services.

The „Crop Evolution“ group at the Institute for Plant Sciences and the Cluster of Excellence on Plant Sciences (CEPLAS) studies the evolution and adaptation of crops. We use population and quantitative genetics to understand how wild plants became crops and how these crops spread across the globe. Our models are maize and amaranth. More on [www.cropevolution.org](http://www.cropevolution.org). The selected candidate will work on a DFG - DBT funded project, studying the sources of adaptive variation during the colonisation of novel environments. In an international collaboration we will study the phenotypic, genomic and ionomic adaptation of grain amaranth during its recent (approx. 400 years ago) introduction to India.

## YOUR TASKS

- » Generate and analyze whole genome sequencing data from large populations
- » Population genetic analysis to understand the sources of adaptive variation
- » Quantitative genetic analysis of genomic, phenotypic and ionomic data generated by project partners
- » Participate in the development of the project and contribute ideas
- » Write and publish scientific articles and present results at conferences
- » Participate in group and project meetings and discussions

## YOUR PROFILE

- » PhD in relevant field (e.g., evolutionary genetics, computational biology, plant breeding)
- » Background in population genetics, quantitative genetics, computational biology or equivalent
- » Interest in evolutionary questions and plant research
- » Experience with omics data analysis
- » Computational skills (e.g., knowledge in bash, R or Python)
- » Excellent oral and written communication skills in English

## WE OFFER YOU

- » A stimulating research environment in a highly motivated team
- » Participation in international research collaboration with partners from India and the US
- » A diverse and fair working environment
- » Support in reconciling work and family life
- » Flexible working time models
- » Extensive advanced training opportunities
- » Occupational health management offers
- » Local transport ticket at a discount for UoC employees

The position is available from the 01.05.2021 (or soon after) on a full-time basis (39,83 hours per week). It is initially limited to a term of 2 years with the possibility of extension. If the applicant meets the relevant wage requirements and personal qualifications, the salary is based on remuneration group 13 TV-L of the pay scale for the German public sector.

The University of Cologne is committed to equal opportunities and diversity. Women are especially encouraged to apply and will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from people with disabilities / special needs or of equal status.

Please apply online at: <https://jobportal.uni-koeln.de> with proof of the sought qualifications, including a letter describing your interests and motivation, CV, and contact information of at least two referees. The reference number is Wiss2101-21. The application deadline is the 07.03.2021.

For questions regarding the project please contact Dr. Markus Stetter ([m.stetter@uni-koeln.de](mailto:m.stetter@uni-koeln.de)).