

The University of Cologne invites applications for a Postdoc position in the research group of Prof. Juliette de Meaux in the faculty of Natural Sciences.



Evolution of gene regulation and polygenic adaptation in Plants

1 Postdoc position

Lab. J. de Meaux - Cologne

Research in our lab investigates the role played by variation in gene expression regulation in processes of polygenic adaptation. Our lab has recently collected a transcriptomic time series to identify the cis- and trans- regulatory changes associated with the shift from perennial to annual growth in plants. The postdoctoral scientist will use this data to disentangle the effect of temperature and development on expression differences between these species. The goal of the project is to identify the molecular components whose regulation has been reshaped after the shift in life-history. Using data previously generated by our lab on positive and negative evolutionary forces in these same populations, and ad-hoc dataset for the well known regulation of flowering time in these species, the scientist will investigate footprints of polygenic selection on the regulation of plant development.

The applicant must hold a PhD in Evolutionary Biology (Population genetics, Comparative Genomics, Evolutionary Genetics) and hold advanced skills in the bioinformatics of next generation sequencing data. Language in the lab is English. Applications or questions regarding the position should be sent by mail to jdemeaux@uni-koeln.de, with the following subject line – Postdoc application Evolution Gene Expression – de Meaux lab. A letter of motivation, a CV and the contact of 2-3 referees should be provided, all in a *single* pdf file. Revision of applications **will begin on April 25th and continue until the position is filled. Funding is for 24 Months starting as soon as possible.** Candidates planning to set up their own group as e.g. with application to Emmy Noether Early Career Grants are especially welcome to apply and will receive strong support. For more information on our lab and research visit our website <https://ag-demeaux.botanik.uni-koeln.de/> The University of Cologne is an equal opportunity employer in compliance with German laws and our lab is committed to nurture diversity in its rows. People with disabilities are strongly encouraged to apply.

Cologne is Germany's vibrant Metropolis on the Rhine. The city is well known for its wild carnival, its famous Kölsch beer, its Cathedral and its vivid contemporary art and musical scene. Cologne is the fourth biggest city in Germany with over a million inhabitants from all over the world and an interesting mix of restored historic buildings and modern post-war architecture. Most importantly, Cologne University is one of the oldest and largest Universities in the Country. Our research group is hosted at the Biological Center of the University of Cologne and associated to the Excellence Research Cluster CEPLAS (<http://ceplas.eu/de/>), which fosters active interactions between plant scientists of the Universities of Cologne, Düsseldorf and the Max Planck Institute of Plant Breeding Research. In this context, our lab members are assured to unfold their scientific career in a world-class scientific environment.