

One Postdoctoral position and
One PhD position available to study

The role of chromatin in environmental stress memory at the University of Potsdam



European Research Council

The Bäurle lab studies the long-term adaptation of plants to abiotic stress and the roles of epigenetic and chromatin regulation in this process using genetic and molecular tools (see <https://baurlelab.wordpress.com/>). We have recently shown that histone methylation and nucleosome positioning play crucial roles in the adaptation of plants to recurring heat stress (Lämke et al. (2016) **EMBO J**; Brzezinka, Altmann et al. (2016) **eLife**). The aim of the advertised project is to build on these findings to gain a mechanistic understanding of the role of chromatin during heat stress memory in the model plant *Arabidopsis thaliana*. To this end, the successful candidates will employ state of the art molecular biological, biochemical and genomic approaches. The Potsdam/ Berlin area provides a vibrant scientific environment for molecular plant research and we have a number of links with other labs and institutions in the region, e. g. through the DFG-funded Collaborative Research Center 973. The Potsdam/ Berlin area is renowned for its high quality of life.

The positions are funded by an ERC Consolidator Grant. **Postdoctoral position** (2 yrs with possibility of extension): The successful candidate holds a PhD in biochemistry or molecular biology and is expected to have a proven track record in molecular biology, biochemistry or genetics, including publication(s) in major international journals. A demonstrated aptitude in chromatin biology or next generation sequencing methods is essential. **PhD position** (3 yrs): A Masters degree in molecular Life Sciences and previous experience in molecular biology and biochemistry are required. For both positions a strong interest in the research question, flexibility, and the ability to work both independently and in a team are required. The working language of the laboratory is English.

To apply please send your application including a complete CV, a copy of your degree certificate, a letter detailing your motivation to apply for this position, and contact information of two referees to Isabel Bäurle (isabel.baeurle@uni-potsdam.de). Applications will be accepted until the positions are filled.

