

**One Postdoctoral position and
One PhD position available to study**

The role of chromatin in environmental stress memory

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

