

## PostDoc in Epigenetics

The Institute of Functional Epigenetics (IFE) focuses on understanding the epigenetic mechanisms whereby cells and organisms integrate metabolic signals, establish cellular memory and regulate plasticity in order to identify new epigenetic pathways. For this we use cutting-edge methods (multi-omics, single cell, live cell imaging, modelling, biochemistry as well as various developmental and cell biology systems) to predict, observe, and manipulate epigenetic processes. <https://www.helmholtz-muenchen.de/ife>

For a project on the interphase between **chromatin biochemistry**, **epigenetics** and **epitranscriptomics** we are looking for a PostDoc with experience in the epigenetics or chromatin field, a solid publication record and motivation to develop and execute the next breakthrough ideas. The successful candidate will study novel chromatin modifying pathways including RNA modifications, which we have recently identified, to address a central question in epigenetics: **how do epigenetic mechanisms control gene expression** and **how are chromatin states maintained through cell divisions**.

This project will involve a combination of *in vitro* and *in vivo* approaches, including different NGS (omics) techniques and their analysis as well the development of novel technologies to address epigenetic mechanisms in single cells. The project is designed to allow the applicant to play a major role in determining its direction and at the same time benefit from intense interdisciplinary collaborations within Helmholtz Munich as well as the strong epigenetics and chromatin background of the other Institute members.

### Candidates for this position should have:

- PhD in biology or a related field
- Strong research background in chromatin research with a very good publication record.
- **Experience in at least two of the following fields is essential:**
  - Chromatin biochemistry,
  - ChIP-seq and RNA-seq techniques (including data analysis),
  - Single cell approaches,
  - *S. cerevisiae* genetics or mammalian tissue culture
- Fluency in English is required. Knowledge of German is not required

### Our Offer

- An ambitious and scientifically stimulating environment with excellent facilities and a vibrant epigenetics community (epigenetics@HMGU)
- The possibility to work in an interdisciplinary team of motivated people from around the world
- Extensive and goal-orientated professional development opportunities and career-building programs

### Curious ?

Please submit your application including a cover letter, detailed CV, copies of your certificates, and contact details of 2 referees preferable as one pdf file to:

**robert.schneider@helmholtz-muenchen.de**