Institute of Functional Epigenetics
HelmholtzZentrum münchen
German Research Center for Environmental Health

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. We leverage this knowledge to identify new epigenetic pathways for drug discovery. We use cutting-edge methods (multi-omics, single cell, live cell imaging, modelling, biochemistry as well as various developmental, stem cell and cell biology systems) to predict, observe, and manipulate epigenetic processes. https://www.helmholtz-muenchen.de/ife

The **Schneider group** is recruiting a PostDoc to work on the interphase between **chromatin biochemistry**, **epigenetics** and **epitranscriptomics**. The applicant should have experience in the epigenetics or chromatin field, a solid publication record and be motivated to develop and drive her/his own project. The successful candidate will address a central question in epigenetics: **how do epigenetic mechanisms control gene expression programs** in single cells and **how are transcriptional states maintained** through cell divisions**.**

The applicant will implement a combination of *in vitro* and *in vivo* approaches, including different “omics” techniques and their analyses as well the development of novel single cell technologies. He/she will benefit from a vibrant scientific environment within Helmholtz Munich as well as the strong epigenetics and chromatin community in the Munich area.

Candidates for this position should have:

- PhD in biology or a related field
- A very good publication record
- Experience in at least one of the following is essential:
  - Chromatin biochemistry,
  - ChIP-seq and RNA-seq techniques (including data analysis),
  - Single cell approaches,
  - S. cerevisiae genetics or mammalian tissue culture and cell manipulation
- 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)
- To work in an interdisciplinary team of motivated people from around the world
- Extensive 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 3 referees preferable as one pdf file to: **robert.schneider@helmholtz-muenchen.de**

Relevant publications from the Schneider lab:

Ignatova, V.V., et al., (2020) METTL6 is a tRNA m3C methyltransferase that regulates pluripotency and tumor cell growth. Science Advances, 6, eaaz4551

Ignatova, V.V., et al., (2020) The rRNA m^6A methyltransferase METTL5 regulates pluripotency and developmental programmes. Genes and Development, 34, 715-729.

Bheda, P., et al., (2020) Single-cell tracing dissects regulation of maintenance and inheritance of transcriptional reinduction memory. Mol Cell, 78, 915-925.