

# PhD Student Position in Epigenetics / Gene Regulation

## **Research interests:**

The goal of our research is to understand the molecular mechanisms underlying antigenic variation in *Trypanosoma brucei*, the causative agent of Nagana and sleeping sickness in Sub-Saharan Africa. Using numerous system-wide approaches (ribosome-profiling, high-resolution ChIP-seq, single cell RNA-seq, Hi-C) and state-of-the-art microscopy, we study how different chromatin structures are established at specific loci along the genome, how they are formed across the nucleus in 3 dimensions and how they affect gene expression.

## **The Siegel lab:**

As of Sept. 2017 our group is based at the newly built Biomedical Center (BMC) of the Ludwig-Maximilians-Universität in Munich, Germany. We are funded by grants from the DFG, the Humboldt foundation and the ERC. Numerous in-house core facilities ensure access to state-of-the-art equipment. Further information can be found at: <http://www.physiolchemie.abi.med.uni-muenchen.de/research/siegel> and <http://www.en.bmc.med.uni-muenchen.de/index.html>



## **Prerequisites:**

- Strong background in gene regulation and biochemistry or molecular biology
- Strong interest in the development of new methods in one of the following areas:
  - super resolution microscopy
  - next generation sequencing
  - single cell biology
  - systems biology
  - bioinformatics
  - chromatin biology / epigenetics
- Ability to work self-motivated and as a team player in an international environment
- Good verbal and written English skills

## **Position:**

The position is funded by the ERC and the salary will be based on TV-L 13. The initial contract will be for 3 years and can be extended.

## **How to apply:**

Please send your application (motivation letter, CV, names of two referees and transcripts in one PDF) citing "17/09" in the subject line by email to [n.siegel@lmu.de](mailto:n.siegel@lmu.de). The call will remain open until the position is filled.

The Ludwig-Maximilians-Universität is an Equal Opportunity Employer. In case of equal qualification, disabled persons will be preferentially considered.