We are looking to support our rapidly growing team as soon as possible:

PhD Student (w/m/d)

Institute of Anatomy

TV-L: 25 h/week (64,94%)

limited for 3 years according to WissZeitVG

Your salary will be based on TV-L

Your tasks

- Execution of a research project dealing with the biology of stem cells in the larval Drosophila gut
- Bioinformatic analysis of various high-throughput sequencing datasets (single nucleus RNAseq, DamID), genetic, cell biological and imaging experiments in the model organism Drosophila
- Teaching of undergraduate medical students in histology

Your profile

- Applicants holding a Master degree in biology or a related subject with a profound interest in cell biology, developmental biology, bioinformatic analysis of single cell RNAseq data, imaging and genetics are encouraged to apply. Laboratory experience in cell biology, molecular biology and biochemistry is desirable.
- Motivation to work in an international research team and good command of the English language is mandatory.

Our offer

- **Everything but ordinary:** You can expect a secure job in a challenging, innovative environment – including company pension schemes and regular working hours without business trips.

Your future with us

We are one of the leading university hospitals in Germany and network research, teaching and health care at the highest level. That's why many things are a lot bigger for us: the spectrum of exciting development opportunities. The limitless openness with which specialists from all over the world work together here. Or our commitment as an employer to support all employees as best we can in reconciling their job with their goals and life situations.

This is the University Hospital of Cologne: Everything but ordinary.

Your future in detail

We are searching for a highly motivated candidate who is interested in studying the molecular mechanisms controlling stem cell maintenance and cell fate determination in the model organism Drosophila. The project deals with the functional analysis of target genes regulated by the Tip60 chromatin remodeling complex of the fruit fly Drosophila. We found that the ATPase Domino, the histone acetyl transferase Tip60 and several other members of this protein complex including the transcription factor Myc are required for maintenance of neural stem cells in the larval fly brain (Rust et al. 2018). More recent data show that the Tip60 complex is also required for stem cell maintenance in the larval gut of the fly. By using

- **Work-life balance:** Whether full-time or part-time, with or without children – with numerous support options, we will find the right path together.
- **Team spirit in R(h)ine culture:** You will be warmly welcomed by an interdisciplinary team that values mutual respect and helpfulness.
- **Strong perspectives:** We offer extensive training opportunities – so you can continuously grow and set new goals.

the DamID method we have identified target genes of the Tip60 complex in the gut and aim to functionally analyze their contribution to tissue homeostasis. We have also pursued single nucleus RNA sequencing of the wild type and domino knockdown larval gut and are in the process of assembling a cell atlas of the larval gut based on these data and on electron microscopic
imaging. Further information on the research activities of our group can be found on our homepage: http://www.anatomie.uni-koeln.de/21614.html.

Applications from female candidates are expressly welcome and will be given priority in the event of equal suitability, competence and professional performance. People with disabilities are welcome to apply and will be treated preferentially in the event of equal suitability and qualification.

Contact

Univ.-Prof. Dr. A. Wodarz
Tel: +49 221 478-82880

Universitätsklinikum Köln AöR
Geschäftsbereich Personal
Kerpener Str. 62
50937 Köln

Uniklinik Köln Karriere

Application deadline: 28.12.2025

Job-ID: 8a3y3zih

apply now

We look forward to receiving your application and getting to know you!