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

Postdoc (f/m/x)

Institute for Metabolomics in Ageing, CECAD Researchcenter

TV-L: 38,5 h/week (100%)

Fixed-term contract until 31.12.2029 pursuant to WissZeitVG (third-party funded project)

Your salary will be based on TV-L

Your tasks

- Use cell lines and mouse models to investigate the causal link between mitochondrial dysfunction and the pathophysiology of cancer
- Use molecular biology, biochemistry, and computational techniques to investigate metabolism at the molecular level
- Perform multi-omics analyses (metabolic, proteomic and transcriptomic studies) and integrate these datasets to generate new hypotheses
- To accurately record and judiciously analyse, present, and report experimental data
- Drive your own research project under the supervision of the PI
- Interact and supervise junior members and technicians in the lab

Your profile

- A PhD in cancer biology, biochemistry, molecular biology or equivalent is essential
- Established experience in cellular metabolism or mitochondrial biology is essential
- Knowledge of research procedures and statistical methods is essential
- The ability to work effectively in a team is a prerequisite
- Experience in mouse models is desirable. The candidate needs to hold an animal license and have

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

CECAD is an inclusive, equal opportunity employer that offers attractive conditions and benefits commensurate with an international research organization with a very collegial and family-friendly work environment.

The Frezza laboratory (https://frezza.cecad-labs.uni-koeln.de/home) seeks to understand the contribution of dysregulated metabolism to ageing-associated disorders, focusing on cancer. A part of the lab is investigating how the loss of the mitochondrial enzyme and tumour suppressor Fumarate Hydratase causes renal cancer. Our work has multiple implications: (1) it will provide a mechanistic understanding of the role of metabolism and small

experience in writing animal protocols
- A research background in epigenetics is a plus
- Proficiency in written and spoken English is mandatory
- Evidence of great communication skills, curiosity-driven science and excellent problem-solving skills is essential

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.
- **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.

molecule metabolites in human diseases; (2) it will generate experimental and computation tools to identify metabolic vulnerabilities that we can use as pharmacological targets for cancer therapy; (3) it will apply metabolomics and multi-omics analyses, to mouse and human models to identify metabolic markers of disease initiation for clinical application in early detection and for patient stratification.

The project of the successful candidate is part of the CRC 1310 consortium on "Predictability in Evolution" (https://crc1310.uni-koeln.de/)

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. The position is suitable for staffing with part-time employees.

Contact

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Geschäftsbereich Personal
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Application deadline: 22 March 2026

Job-ID: 8qtfi1mo

apply now

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