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

- PhD student (f/m/x)

Institute for Metabolomics in Ageing, CECAD Researchcenter

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

limited to 3 years under WissZeitVG as part of a PhD 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 imaging techniques to investigate molecular mechanisms
- Perform multiomics 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 direct supervision of the senior post docs and PI

Your profile

- A completed Master's degree in life sciences or related fields is mandatory
- Proficiency in written and spoken English is mandatory
- Evidence of great communication and team work skills, curiosity-driven science and excellent problem-solving skills
- Experience in animal tissue handling, cell culture or imaging is a plus
- Experience in systems/computational biology is plus
- A background in physiology, metabolism or cancer is a plus
- Proficiency in R studio or other programming

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 (Christian Frezza Lab: Home) seeks to understand the contribution of dysregulated metabolism to age associated disorders, in particular 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 molecule metabolites in human diseases; (2)

language is desirable

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.

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 CRC1218 consortium (SFB1218) on "Mitochondrial regulation of cellular function".

People with disabilities are welcome to apply and will be treated preferentially in the event of equal suitability and qualification.

Contact

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Application deadline: 26 April 2026

Job-ID: ce0uel1t

apply now

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