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

Postdoctoral Researcher (f/m/x)

Humangenetik

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

limited for 2 years according to WissZeitVG with possibility of extension

Your salary will be based on TV-L

Your tasks

- Investigating axonal targeting and pathomechanisms of Tau mislocalization in Alzheimer's disease and related tauopathies
- Studying the role of mitochondrial clustering and dysfunction in neurodegeneration
- Developing and applying iPSC-derived neuronal models for rare hereditary disorders
- Exploring gene therapy strategies using viral vectors and genetic rescue
- Performing in vivo studies using rodent models to evaluate AAVbased gene delivery
- Assessing transgene expression, distribution, and functional outcomes in CNS tissues following gene therapy

Your profile

- PhD in Neuroscience, Molecular Biology, Human Genetics, or a related field
- Strong experience in at least two of the following: neuronal cell culture, imaging (confocal, live-cell), molecular cloning, iPSC-based modeling, or transcriptomics/proteomics
- Excellent scientific writing and communication skills
- Ability to work independently and in a collaborative, multidisciplinary environment
- Hands-on experience with rodent handling, injections, and animal experimentation (FELASA certification or equivalent is a plus)

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

The position is affiliated with the Zempel Lab (Dr. Dr. Hans Zempel) at the Institute of Human Genetics at the University Hospital Cologne. The Zempel Lab investigates the molecular and cellular mechanisms underlying neurodegenerative and neurodevelopmental disorders, with a special focus on tauopathies, mitochondrial dysfunction, and rare genetic diseases. Using a combination of iPSC-derived neuronal models, CRISPR/Cas9 gene editing, live-cell imaging, and transcriptomic/proteomic profiling, we aim to unravel disease pathways and identify novel therapeutic targets. We value diversity and welcome applications from all qualified candidates, regardless of gender, background, or disability status.

- Prior experience with neurodegenerative disease models, CRISPR/Cas9, or viral gene delivery is a strong advantage

Our offer

- A stimulating research environment in a leading center for molecular medicine
- Access to state-of-the-art facilities including advanced imaging, genomics, and proteomics platforms
- Collaborative networks within the University of Cologne, CMMC, and international research consortia
- Support for career development, mentoring, and participation in international conferences

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

Dr. Hans Zempel

Tel.: +49 221 478-1441014

Universitätsklinikum Köln AöR
Geschäftsbereich Personal
Kerpener Str. 62
50937 Köln

Uniklinik Köln Karriere

Application deadline: 14.12.2025

Job-ID: c0r2hnmw

apply now

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