



Join Our Innovative Research Team At The Institute Of Physiology

The Institute of Physiology at the Medical Faculty Carl Gustav Carus, TU Dresden, is at the forefront of research into metabolism and metabolic diseases. Our mission is to unravel the complexities of metabolic organ functions, identify mechanisms underlying related diseases, and pioneer new therapeutic strategies. We foster a collaborative and supportive environment that encourages open communication and the sharing of ideas to drive innovation and advance our collective research goals.

We are excited to announce an opening in our dynamic research group 'Vascular Tissue Remodeling,' led by Claudia Goettsch, PhD (who will join our institute as W2 Professor of Physiology in January 2025). We are seeking a passionate **Postdoc (m/w/d)** to contribute to groundbreaking research within our multidisciplinary and international team.

About the Research Group: Our research group is dedicated to advancing the understanding of fibro-calcific vascular remodeling within the context of the cardiovascular-renal-metabolic syndrome and inter-organ communication related to metabolic homeostasis and associated comorbidities. We aim to comprehensively explore molecular pathways driving vascular dysfunction in metabolic disorders such as diabetes mellitus through foundational science combined with translational and clinical approaches. Our methodology are integrating both in vitro and in vivo studies alongside cutting-edge omics strategies.

This project is part of the German Research Foundation-funded SFB/Transregio 219 on "Mechanisms of Cardiovascular Disease in Chronic Kidney Disease" (www.sfb-trr219.de). We aim to deepen our understanding of renal and cardiovascular interactions that may inform innovative treatment strategies to reduce cardiovascular risks in patients with impaired kidney function.

Key Responsibilities:

As a successful candidate, you will:

- Design and execute molecular and cellular studies investigating vascular and kidney remodeling in chronic kidney disease.
- Conduct in vivo studies utilizing human tissue and mouse models.
- Analyze complex data sets.
- Present your findings at scientific conferences.
- Author publications for peer-reviewed journals.

Postal address

TU Dresden
Faculty of Medicine Carl Gustav Carus,
Fetscherstr. 74, 01307 Dresden

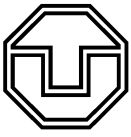
Visitor address

Fiedlerstr. 42
House 91
Room A.20.010

Internet

<http://tu-dresden.de/med/mf/phy>





What We Expect:

We seek candidates who possess:

- A PhD degree or proof of submitted PhD thesis in biology, biochemistry, biomedicine, life sciences, or related fields.
- A collaborative spirit with high motivation.
- Creative problem-solving skills paired with scientific curiosity.
- A strong affinity for biomedical and translational research.
- Proficiency in cell culture techniques and molecular biology methods (RT-PCR, Western Blotting, cloning, etc.).
- Experience with kidney biology, posttranslational modifications, extracellular vesicles, cell metabolism, or bioinformatics analysis is advantageous.
- Excellent written and verbal communication skills in English; proficiency in German is a plus.
- Strong organizational skills.

What We Offer:

- A stimulating postdoc position starting January 2025.
- An initial contract duration of 18 months with plans for extension based on performance.
- Competitive salary based on qualifications and experience according to TV-L guidelines (up to TV-L13).
- The opportunity to work within a motivated, diverse team committed to impactful research.
- Opportunities for professional development.

Diversity and Inclusion:

We are committed to creating a diverse and inclusive environment where all team members feel valued and empowered. We encourage applications from individuals of all backgrounds, including those who may be underrepresented in the field of biomedical research.

Interested? Contact Us!

For more details about this exciting opportunity:

Claudia Goettsch, PhD

Email: [**i.physiologie@tu-dresden.de**](mailto:i.physiologie@tu-dresden.de)

To apply, please submit your application by **November 30th, 2024** via email as a single PDF document containing your cover letter, CV, university certificates, list of accomplishments including publications, and contact details for two referees to: [**i.physiologie@tu-dresden.de**](mailto:i.physiologie@tu-dresden.de).