

PhD Project on Control of Cardiovascular Inflammaging

supervised by
Prof. Dr. Dr. h.c. Stefanie Dimmeler (Goethe University Frankfurt)

The Hector Fellow Academy offers you the opportunity to work on a **research project under supervision of Prof. Dr. Dr. h.c. Stefanie Dimmeler**. She is one of the Hector Fellows, a community of outstanding professors from different research institutions across Germany working in **STEM-subjects, medicine, and psychology**.

Her research investigates the fundamental mechanisms underlying cardiovascular disease and vascular growth, with the aim of developing new cellular and pharmacological therapies. Current work focuses on the mechanisms regulating cardiovascular repair and aging.

Tasks

- Participation in the project “Non-coding RNAs in vascular biology”.
- Exploring cellular heterogeneity in heart diseases and aging using novel technologies
- Conducting experiments and biochemical investigations in the field of cell biology, molecular biology, and physiology using animal models or cell culture techniques
- Planning, execution, and analysis of novel therapeutic targets in experimental disease models.
- Preparation and publication of scientific manuscripts in peer-reviewed journals.
- Participation in national and international conferences and contribution to research networks.

Your profile

- You have a master's degree in Biochemistry, Molecular, Cellular or Medical Biology, or Medicine, with excellent grades
- Very good knowledge of physiology
- Strong organizational and teamwork skills, flexibility, openness, and good communication abilities
- Basic bioinformatics skills and experience with single-cell sequencing data analysis
- FELASA certificate
- Basic immunological knowledge and experience with FACS analyses, prior experience in histology

Our offer

- ✓ Mentored by an internationally renowned, top-level scientist
- ✓ Funded position (according to TV-GU 13, 65%) for 3 years with the possibility to extend for one year (3+1)
- ✓ Extensive research funding
- ✓ Membership in an excellent research network
- ✓ Additional management courses, trainings & networking events
- ✓ A broad methodological spectrum, including experimental cardiovascular models and state-of-the-art techniques.
- ✓ Excellent research and training opportunities in molecular biology techniques, cardiology, and cardiovascular medicine.
- ✓ The “LandesTicket Hessen”, enabling free use of public transportation throughout the state of Hesse

Your application

Apply until **October 15, 2026** via the Hector Fellow Academy application portal:

<https://hectorfellowacademy.applicationportal.org/home.html>

Further information: <https://hector-fellow-academy.de/en/>

