



The **Helmholtz Institute for Biomedical Engineering**, Stem Cell Biology and Cellular Engineering, RWTH Aachen University Medical School is offering a position for a

Scientist (m/f/d) working on epigenetics of aging

The position is initially funded for 3.5 years with a possibility for extension. It is supported by the Deutsche Forschungsgemeinschaft (DFG) within the Collaborative Research Center "Aging at Interfaces" (<https://www.uni-ulm.de/einrichtungen/sfb-1506-aging-at-interfaces/>).

Human aging is associated with specific DNA methylation changes and our group was one of the first to describe such "epigenetic clocks". In this collaborative research project, we will make use of the population-based cohort study ActiFE-Ulm to gain further insight into how such epigenetic modifications can be used as a biomarker to discern "biological age" from "chronological age". Targeted epigenetic clocks will be developed and correlated with clinical parameters for biological age and frailty. Furthermore, we aim for functional analysis of age-associated epigenetic modifications in iPSC models with CRISPR technology. We want to understand how age-associated DNA methylation patterns can be modified during reprogramming and differentiation. You can find further information on our research group under <http://www.stemcellbiology.ukaachen.de>.

We are looking for:

A motivated and ambitious scientist with a strong background in epigenetics, aging research, and/or stem cell biology. You should have experience in cell culture and handling of sequencing data. Experience with bioinformatics, DNA methylation data, and/or iPSC culture would be advantageous. An important part of the work will be close interaction with other members of the Collaborative Research Center "Aging at Interfaces". You should hold a very good master (e.g. in Molecular Biology) and a very good PhD. If you do not yet hold a PhD degree, it would in principle also be possible to make a PhD within this project. Willingness for teamwork is a prerequisite.

We offer:

A highly interactive and well-equipped environment in an international team (all English speaking), with excellent partners, a broad spectrum of methods and a highly relevant research topic. The salary is based on the German public service salary scale (TV-L E13).

This position is not gender specific. The RWTH Aachen University Hospital promotes equal opportunities and diversity. Applications from women are expressly encouraged and if the applicant is suitable qualified, they will be given priority in accordance with the LGG. If suitably qualified, people with a registered disability will also receive priority. Employment at less than full time is negotiable.

Your application should be send by E-mail to Prof. Dr. Dr. Wolfgang Wagner (wwagner@ukaachen.de).

Please enclose a cover letter, which specifically emphasizes your interest in this project (in English), CV with publication list, contacts of two references, and copies of the most important certificates.

The application period for the advertised position ends on **15.02.2022**.

If you have further questions please contact Prof. Dr. Dr. Wolfgang Wagner, Tel.:+49 241 80 88611, E-Mail: wwagner@ukaachen.de.