



We want
YOU!

Job ID
1719
Application
until **12.11**

The Leibniz Institute on Aging - Fritz Lipmann Institute (FLI) is a research institute of the Gottfried Wilhelm Leibniz Association, which is financed by the Federal State of Thuringia and the Federal Ministry of Education and Research with 50% each. The main focus of research is to delineate basic molecular mechanisms and its consequences for the development of dysfunctions and aging-related diseases. Around 350 employees work and conduct research at the FLI, with about 25% international employees from approximately 30 nations.

The **Epigenetic Group (Neri Research Group)** of the Leibniz Institute on Aging—Fritz-Lipmann-Institute e.V. in Jena invites applications for a

PhD student position (TV-L E13/2) (Job ID 1719)

Within the Leibniz Graduate School on Aging (LGSA) in Jena the Neri Research Group invites applications for a PhD student position (TV-L E13/2).

The main goal of the present project is to **characterize epigenetic changes that occur in calorie-restricted intestine and to delineate their role in changing stress responses during aging and inflammation**. After genome-wide DNA methylation profiling conducted on intestinal stem cells (ISCs) and crypts, identified DNA methylation changes will be functionally characterized by using in vitro models (intestinal organoids) to assess the impact of these epigenetic alterations on the stem cell self-renewal, differentiation and response to inflammatory factors and chemical compounds. Targeting of locus-specific DNA methylation levels will be achieved by using a novel CRISPR-based editing approach. Epigenetically modified organoids will be phenotypically analysed as well as characterised at transcriptional level by using well established methods like RNA-sequencing.

The FLI is excellently equipped with state-of-the-art facilities like next-generation DNA sequencing (NGS) technology, proteomics, functional genomics, imaging and more.

If you are interested, check out the application guideline at <http://lgsa.leibniz-fli.de/application/application-guideline/>, and send your application to lgsa@leibniz-fli.de.

We offer:

A position in a well-equipped research group of a high quality institute for age research, which harbors several state-of-the-art facilities. Our work is embedded in the Beutenberg Campus, an interdisciplinary base for innovative research.

The PhD position will be integrated in our Leibniz Graduate School on Aging and Age Related Diseases

The contract conditions and the salary will be according to the collective labor agreement for public service employees of the Federal State of Germany (TV-L E13/2).

Application:

Please acquaint yourself with the LGSA procedures and with the application procedure on our website <http://lgsa.leibniz-fli.de/>, fill in the application form and send it electronically to the LGSA.