



LEIBNIZ RESEARCH  
INSTITUTE FOR  
ENVIRONMENTAL  
MEDICINE

The IUF – Leibniz Research Institute for Environmental Medicine investigates the molecular mechanisms through which particles, radiation and selected environmental chemicals harm human health. The main working areas are environmentally induced aging of the pulmonary system and the skin as well as disturbances of the nervous and immune system. Through development of novel model systems the IUF contributes to the improvement of risk assessment and the development of novel strategies for the prevention / therapy of environmentally induced health damage. For January 1<sup>st</sup>, 2023 or as soon as possible, we are looking – within projects of the DFG (German Research Foundation) research unit FOR 5489 “Understanding aryl hydrocarbon receptor (AHR) signaling in skin disorders” – for

**3 research associates / post-docs (m/f/d).**

#### **The project:**

Signal transduction in cells can be a target for disease prevention and therapy. One player that receives signals and subsequently acts as a switch for the transcription of genetic information is the aryl hydrocarbon receptor, short AHR, which is activated by environmental signals such as UV, or certain molecules from the environment and nutrition.

It is still unclear why the activation of the AHR sometimes has a positive effect on skin health and sometimes an adverse effect. This is where the research unit comes in. In an ambitious interdisciplinary research program, nine working groups will address this question, three of them at the IUF, and here they will investigate in particular the chronic inflammatory skin disease atopic dermatitis and skin cancer. Further information on the project is provided on our website: <https://iuf-duesseldorf.de/en/ahr-research-unit/>

**At IUF, the following topics are available within the framework of the project:**

1. The role of the AHR for the gut-microbiome-skin axis in mice (Prof. Dr. Charlotte Esser/ immunologic focus).
2. Crosstalk between AHR signaling responses and retinoids in skin (Prof. Dr. Jean Krutmann/ dermatologic focus).
3. From actinic keratosis to invasive squamous cell carcinoma: impact of the AHR-p27KIP1 axis on malignant transformation (Priv.-Doz. Dr. Thomas Haarmann-Stemmann/ oncologic focus).

#### **We are looking for:**

Dynamic individuals with a PhD in biology, biomedicine, or life sciences and a focus appropriate for the desired project. You enjoy research, have excellent bench skills, are organized and communicative, including in English. You can work both independently and as part of a team.

**We offer:**

- highly interesting scientific projects
- scientific exchange and the interdisciplinary environment of a Leibniz Institute
- an interesting, responsible and multi-faceted job in a motivated and collegial team
- modern and family-friendly working conditions
- flexible working hours
- supplementary company pension scheme (RZVK)
- affordable job ticket for the Rhein Ruhr public transport system
- 30 days of vacation

The positions are initially limited to 4 years, with the option of a prolongation. The employment relationship is based on the provisions of the Collective Agreement for Employees of the Federal States (TV-L); remuneration is up to pay group 13 TV-L, depending on previous training. The weekly working time is 39:50 hours.

We promote equal opportunities and diversity. Women are especially invited to apply and will be given preferential consideration in accordance with the LGG NRW. Applications from people with severe disabilities and their peers are also expressly encouraged.

Please send your complete application documents (cover letter, curriculum vitae, copies of your most recent certificates, reference to your methodological skills and preferred project, two references) with the reference number "FOR5489" in the subject line as one summarized document in PDF format by e-mail to [Bewerbung@IUF-Duesseldorf.de](mailto:Bewerbung@IUF-Duesseldorf.de).

IUF – Leibniz Research Institute for Environmental Medicine  
HR department  
Auf'm Hennekamp 50  
40225 Düsseldorf

Application documents submitted by post are not returned. Documents for applicants not considered are destroyed appropriately once the procedure is complete. Discretion and compliance with non-disclosure notices is assured.