



LEIBNIZ-INSTITUT  
FÜR UMWELT-  
MEDIZINISCHE  
FORSCHUNG

The IUF – Leibniz Research Institute for Environmental Medicine investigates the molecular mechanisms through which particles, radiation and 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 identification of novel strategies for the prevention / therapy of environmentally induced health damage. The working group “Immunology and Immunotoxicology of AHR” at the IUF - Leibniz Research Institute for Environmental Medicine in Düsseldorf seeks an enthusiastic

### **Postdoctoral fellow (f/m/d) in the area of the gut-skin axis**

Our research group analyzes the role of the aryl hydrocarbon receptor (AHR) in immunotoxicology, with a special focus on the barrier organs skin and gut, and their reciprocal influence. In the project at hand, we are interested in the role of AHR for a healthy skin and gut. Using various conditional AHR-deficient mouse models, and cutting edge molecular technologies, we want to study if dietary components or metabolites from gut bacteria can improve skin resilience and act anti-inflammatory in, e.g. atopic dermatitis. Ultimately, we aim for identifying therapeutic options. AHR-research is a long-standing focus of other groups at the IUF as well, giving numerous opportunities for exchange.

#### **Your tasks**

- Planning and performing *in vitro* and *in vivo* biological experiments, including in transgenic mice
- FACS analyses and data analyses
- Presenting data in regular internal meetings as well as at scientific conferences
- Writing of abstracts and manuscripts resulting from your research
- Mentoring students and lab members

#### **Your profile**

- Doctoral degree in life science, with a strong background in immunology and microbiome research
- Interest in the gut-skin axis, the microbiome, and inflammation research
- Profound knowledge and hands-on experience in flow cytometry (FACS analysis, cell sorting)
- Prior experience in mouse research, a FELASA B certificate or equivalent is mandatory
- The ability to carry out projects independently, reliably and with great enthusiasm
- Excellent communication skills in German and English, both oral and in writing

- Affinity for computational biology, knowledge of R is of advantage
- Initiative and willingness to collaborate with external partners and colleagues

**We offer**

- A varied and challenging position in a leading international research institute for environmental medicine
- A friendly, open and stimulating working environment in a dedicated group
- Institute with a modern state-of-the-art infrastructure
- Interest in your career and access to the IUF Postdoc Program and our networks
- Flexible working hours

The Position is limited until 31.01.2027 with the option of a prolongation, starting as soon as possible. The weekly working time totals 39 hours and 50 minutes. Remuneration is given in accordance with the provisions of the collective agreement for the employees of the states (TV-L). Women are especially encouraged to apply, and in the case of equal qualification, handicapped persons will be given preference. The IUF is committed to family-friendly working conditions and equal gender policy.

Please submit your application by e-mail as one pdf-file combining relevant documents (letter of motivation, CV, university certificates, and contact of two referees) with the reference “skin-gut axis” in the subject line to [Bewerbung@IUF-Duesseldorf.de](mailto:Bewerbung@IUF-Duesseldorf.de)

Prof. Dr. Charlotte Esser  
IUF – Leibniz-Institut für umweltmedizinische Forschung  
c/o Personalstelle  
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.

