



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 “AHR signaling & environmentally-induced skin damage” at the IUF – Leibniz Research Institute for Environmental Medicine in Düsseldorf is offering a position for a

### **Postdoctoral fellow (f/m/d) in the area of skin cancer biology**

Our research group investigates the biological role of aryl hydrocarbon receptor (AHR)-dependent signaling pathways in the skin. The main focus of the research is to elucidate new functions of AHR in the stress response of cutaneous cells exposed to UV radiation and ubiquitous environmental pollutants. We aim to identify novel molecular targets for the development of preventive and therapeutic measures against environmentally induced skin diseases. Currently, we are looking for reinforcement for a DFG-funded project aiming to unravel the role of AHR in skin photocarcinogenesis, more precisely in the malignant transformation of UV radiation-damaged keratinocytes.

#### **Your tasks**

- Planning and performing molecular and cell biological experiments in immortalized and primary keratinocytes, cancer cells and transgenic mice
- Data analysis
- Collecting and analyzing transcriptome data using cutting-edge methodology
- Presenting data in regular internal meetings as well as at scientific conferences
- Writing of abstracts and manuscripts
- Mentoring students and lab members

#### **Your profile**

- Doctoral degree in life science, e.g. molecular biology, biochemistry, biomedicine
- Strong interest in molecular cancer biology, inflammation research and signal transduction
- Profound knowledge and hands-on experience in cell and molecular biology
- Prior experience in handling of primary cell cultures and transgenic mouse models
- The ability to carry out projects independently, reliably and with great enthusiasm
- Excellent communicational skills
- Previous experience in molecular immunology or computational biology is of advantage

## **We offer**

- A varied and challenging position in a leading international research institute for environmental medicine
- A friendly, open and stimulating working environment
- Institute with a modern state-of-the-art infrastructure
- Access to the IUF Postdoc Program, providing various opportunities for continued education
- 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). Females 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 cancer" in the subject line to [Bewerbung@IUF-Duesseldorf.de](mailto:Bewerbung@IUF-Duesseldorf.de)

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Application documents submitted by post are not returned. Documents for applicants not considered are destroyed appropriately once the procedure is complete.

