



## Job Vacancy

The University Hospital Essen offers first class medical services in the Ruhr metropolis. Every year, 225.000 patients are treated in 30 clinics, 27 institutes and specialized centers. The over 8.000 employees offer medical care with state-of-the art diagnostics and therapies, which meet highest international standards. Patient care is connected with basic and translational research at an internationally competitive level.

### **Research Associate (PhD student) in Translational Melanoma Research (f/m/d)**

(pay grade: EG 13 TV-L)

**Work Area:** Clinic for Dermatology

**Job ID:** 13614

**Start Date:** 01.10.2026

**Work Scope:** Part-time / 25,025 hours per week

**Contract Type:** limited

**Contract duration:** 36 months; in accordance with § 2 Abs. 1 WissZeitVG for qualification goal promotion

#### **Your tasks:**

- Opportunity to conduct high-level interdisciplinary research within the newly established DFG-funded Collaborative Research Centre, investigating the earliest mechanisms of therapy resistance in melanoma during the first days and weeks after therapy initiation
- Work in Project A01 "Modelling the molecular determinants of intrinsic drug resistance in melanoma"
- Investigation of metabolic regulators of macrophages in melanoma
- Characterization of plasma membrane lipid composition and drug permeability in melanoma persister cells
- Establishment and application of 2D and 3D melanoma culture systems as well as patient-derived melanoma models
- CRISPR/Cas9-based genetic engineering and lineage tracing approaches
- Lipidomics-, transcriptomics-, and imaging-based analyses of melanoma persister states
- Analysis of MAPK and PI3K/AKT/mTOR signaling pathways during early therapy adaptation
- Participation in xenograft mouse experiments and longitudinal therapy response studies
- Analysis and interpretation of multi-omics datasets in collaboration with computational project partners
- Presentation of scientific results at meetings and conferences

#### **Your profile:**



- A completed Diploma or Master´s degree in molecular biology or cancer biology, biochemistry, cell biology, bioinformatics, translational medicine or comparable field of study
- Strong interest in melanoma biology, therapy resistance, translational cancer research, multi-omics technologies and lipid metabolism
- Experience in molecular and cellular biology techniques
- Experience with cell culture, molecular cloning, flow cytometry and/or microscopy is desirable
- Experience with bioinformatics, mass spectrometry, imaging approaches or mouse models is advantageous
- Ability to work independently and in interdisciplinary teams, specifically bridging melanoma biology and lipidomics
- Highly motivated, creative and team-oriented personality
- Fluent in spoken and written English

#### Look forward to:

- Cutting-edge research & technology innovative project:
  - Participation in a newly established DFG-funded Collaborative Research Centre featuring a strong interdisciplinary translational focus
  - Advanced methods: full access to state-of-the-art technologies, e.g., multiplex IF imaging using PhenoCycler™, spatial transcriptomic profiling, proteomic and metabolic LMD-LC/GC-MS/MS
  - Technological scope: training in 3D models, in vivo work, flow cytometry, and AI-supported data integration
- Networking & collaboration scientific community:
  - Integration into an interdisciplinary, internationally visible cancer research network
  - Diverse teams: daily interaction with professional colleagues across experimental, computational, and clinical research
  - Exchange opportunities: excellent avenues for close scientific collaboration and external career development
- Mentoring & career development;
  - Structured guidance: continuous, high-quality mentoring tailored to your academic progression
  - Enrollment into the Graduate School for Biomedical Science 'BIOME' (<https://www.uni-due.de/biome/>)
  - Skill building: active participation in CRC events, lab rotations, hands-on workshops, and specialized training activities
- A **secure job** in the public service of the state of NRW
- **Fair payment** in accordance with the collective wage agreement (TV-L) incl. annual bonus payment and supplementary company pension scheme
- **30 days of vacation** per calendar year (for a full-time position)
- **Interdisciplinary work** with colleagues from other departments
- Working with **modern equipment** and certified quality standards
- **Family-friendly corporate culture**, e.g. company daycare center, vacation program for school-age children, advice and support from the Employee Service Office in all life situations



- **Wide range of training and continuing education opportunities**, e.g. at the Training Academy of UK Essen
- **Health management**, e.g. company integration management, vaccinations, promotion of sports activities
- **Attractive fringe benefits**, e.g. reduced-price canteen meals, community events, accommodation in student residences

**General conditions:**

- The pay grade classification depends on the personal and collective legal prerequisites.
- The University Hospital Essen is an equal opportunity employer. Female scientists are particularly encouraged to apply.
- The participation in secondary employment depends on the „Hochschulnebenberufungsverordnung“ of North-Rhine Westphalia.
- Disabled applicants will be preferentially considered in case of equivalent qualification.

**Contact person and further information about the position:**

You will find detailed information on the job advertisement and contact persons behind the button - Apply now:

<https://bewerbung-karriere.ume.de/Vacancies/13614/Application/CheckLogin/1>

We use your data exclusively for application purposes in accordance with the applicable data protection regulations. Further information can be found in the privacy statement on our homepage at: [www.uk-essen.de](http://www.uk-essen.de).