

Job Vacancy

We are one of the youngest universities in Germany and think in terms of possibilities, not boundaries. In the heart of the Ruhr region, we develop ideas for the future at our 11 faculties. We are strong in research and teaching, embrace diversity, promote potential and are committed to educational equality worthy of the name.

PhD student (f/m/d)

(pay grade: EG 13 TV-L)

Work Area: Institute of Cell Biology (Cancer Research) and Institute of Medical Microbiology

Job ID: 11709

Start Date: 01.01.2025 at the earliest, but no later than 01.04.2025

Work Scope: Part-time employment / 25,025 h

Contract Type: Temporary

Contract duration: 42 month from employment, until 30.09.2028 at the latest; in accordance with § 2 (1) WissZeitVG

About us

The advertised position is based at the Institute of Cell Biology (Cancer Research) and the Institute of Medical Microbiology (PIs: Prof. Dr. Verena Jendrossek and Prof. Dr. Astrid M. Westendorf), linked to focus area T2 of GRK 2762, "Role of the host microbiota in radiation-induced lung toxicity."

Radiotherapy (RT) is a primary treatment for non-small cell lung cancer, but its effectiveness is limited by radiation-induced lung toxicity, stemming from abnormal healing responses to lung irradiation. This toxicity includes radiation pneumonitis and pulmonary fibrosis in acute and late phases, with growing evidence suggesting a link between the gut microbiota and RT response and toxicity. This project aims to explore whether thoracic RT alters lung and gut microbiota, the role of these changes in RT-induced lung injury, and if the microbiome can be manipulated to affect disease progression. We will also investigate bacterial metabolites involved in these processes.

The GRK 2762 provides an internationally-oriented, interdisciplinary research and training environment for graduates in experimental or computational life sciences and (bio)medicine interested in cancer research and computational biology. (<http://www.uni-due.de/med/forschung/grk2762/index.shtml>).

Your profile:

- Talented and enthusiastic candidate with high interest in the research topic of GRK 2762
- Strong Diploma/Master degree in Cell or Molecular Biology, Experimental Medicine, Radiation Biology, or related fields
- High motivation and commitment for active cross-disciplinary collaboration
- Fluent in spoken and written English (knowledge of German is not a requirement)

Open-Minded

- disposed to work with laboratory animals
- Very good skills in independent working, organization, communication, and team work
- Active participation in the RTG program

We offer:

- Innovative cross-disciplinary scientific training for PhD and MD students at the interface between radiation biology and oncology, precision medicine, and computational biology
- Training in transferable academic and soft skills
- Funding for active participation in workshops and conferences and international visits to collaboration partners
- Regular supervision and mentoring
- Excellent career opportunities
- Interdisciplinary work with colleagues from other departments
- Working with modern equipment and certified quality standards
- Family-friendly corporate culture

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 „Hochschulnebenbeschäftigungsverordnung“ 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/11709/Application/CheckLogin/1>

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