

The Heinrich-Heine–University of Düsseldorf (HHU) is a modern German university campus with an excellent reputation due to the high number of collaborative research centers. Düsseldorf is the state capital of North Rhine-Westphalia, and provides an attractive environment ranked among the top cities worldwide in terms of high quality of life.

The Institute of Pathology at the University Hospital of the HHU has an immediate vacancy for the following full-time position:

Postdoc (m/f/d) in Pancreatic Cancer Research

The position is available from 01.10.2021 to 31.12.2022 (with the possibility of prolongation).

The 5-year survival rate of pancreatic ductal adenocarcinoma is only 10% mostly due to late diagnosis. Early diagnosis and detailed knowledge of tumor development are therefore essential for improving patients' prognosis. Within a Horizon 2020 financed project (Single Molecule Bio-electronic smart system array for clinical Testing, SiMBiT), we aim at developing a bio-electronic smart system that can perform single-molecule detection of both proteins and DNA biomarkers leveraging on an existing lab-based proof-of-concept. SiMBiT will apply the multiplexing single molecule technology to the early detection of human pancreatic neoplasms in a well-defined clinical context, performing simultaneous analysis of genomic and protein markers with a minimal sample volume, reduced costs and reduced time-to-results.

The successful candidate will have the opportunity to work in a creative research environment and to interact with our international collaborators within the H2020-financed project. She/He will perform cutting-edge research using patient-derived pancreatic organoids, genome editing (CRISPR/Cas9) and next-generation-sequencing techniques as well as performing bioinformatics analysis.

Your profile:

- PhD in biomedicine, biology, biochemistry, bioinformatics or related fields with a specific interest for combining wet lab work with advanced bioinformatic analysis
- Experience in bioinformatic data analysis
- Knowledge in basic and advanced cellular and molecular biology techniques
- Responsible handling of patients' material is a prerequisite
- Good English and German communication skills are required
- Experience in mouse handling and *in vivo* models is desirable
- High degree of self-initiative, good interpersonal skills and flexibility are expected

The pay scale grouping will be, depending on the personal qualification of the applicant, up to salary scale 13 TV-L. The HHU aims at increasing the percentage of employed women. Applications from women will therefore be given preference in cases of equal aptitude, ability and professional achievements unless there are exceptional reasons for choosing another applicant. Applications from suitably qualified severely disabled persons or disabled persons regarded as being of equal status according to Book IX of the German Social Code (SGB-Soziales Gesetzbuch) are encouraged. HHU is an equal opportunities employer. We welcome applications from non-binary or gender-queer applicants as well as person with disabilities or equal status.

The application, written in English or German, should include an application letter, CV, high-school diploma, university diploma and list of courses, summary of the PhD-thesis and two letters of recommendation or contact information of two referees.

Please send your application documents electronically as **1 PDF document** to:

Dr. rer. nat. Friederike Opitz
Heinrich Heine University, Medical Faculty,
Institute of Pathology
Moorenstr. 5
40225 Düsseldorf
E-Mail: Friederike.Opitz@med.uni-duesseldorf.de