

## Job Vacancy

The University Hospital Essen offers first class medical services in the Ruhr metropolis. Every year, 225.000 patients are treated in 26 clinics, 23 institutes and specialized centers. The over 6.000 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.

The working group of Dr. Basant Kumar Thakur at the **Department of Pediatrics III** is currently seeking a

### **Scientist PhD (m/f/d)**

(pay grade: 13 TV-L / 50% – temporary employment)

The employment is provided for the duration of third-party funded projects until December 31th, 2022. Extension might be possible in relation to available third-party funding. The pay grade classification depends on the personal and collective legal requirements.

The working group of Dr. Thakur provides internationally well-accepted expertise in the field of cancer exosomes and in cancer stem cell research. The group is involved in developing exosomal-DNA-based novel biomarker for earlier diagnostics of cancer relapse and spread. The current project aims to evaluate the diagnostic use and function of extracellular vesicles (exosomes) in pediatric medulloblastoma at different stages of the disease. The project which is supported by Children Cancer Foundation candidate will be involved in understanding the functional mechanism of cancer EV-DNA protein biogenesis, organization and the role/ communication with the stromal cells in the tumor microenvironment using 3D cell culture model. We expect the candidate to establish the in vitro chromatin immunoprecipitation and perform confocal and super-resolution imaging to study the EV-DNA protein complex and its interaction with the microenvironment. Understanding the mechanism of EV-DNA protein complex dependent molecular signaling pathways activated in cancer microenvironment would enable us to identify suitable therapeutic targets responsible for tumor relapse or metastasis. Good experience in cell culture, flow cytometry, confocal microscopy, biochemistry and molecular biology techniques are preferred.

We are seeking for a candidate with a completed academic degree (Master or Diploma) in biology or a related field with a good experience in Biochemistry, molecular and cell biology. Proficiency in English language and a good working knowledge with MS Office tools are important. The right candidate is expected to be flexible, independent, and responsible and have desire to work in a collaborative team setting. Depending on the educational level, applicants may participate in a course of our local graduate school (Biome) and use the results of their research activities as for a doctoral thesis (PhD).

**We provide:**

- Competitive clinical and scientific expertise in a dedicated interdisciplinary oncology field
- Opportunity to gain experience in conducting translational research projects
- Independent work atmosphere in a very collaborative scientific setting
- Possibilities to publish and present the results in various scientific events

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

Please send your complete application including letter of motivation, your updated curriculum vitae, copies of all university degrees with the mark lists, brief summary of your master´s or diploma thesis, work or reference letters and contact details of two references preferably by email as a single pdf file, referring to the job vacancy ID **1057**, within two weeks of publication of this advertisement to

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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).