



In order to strengthen and expand our fundamental and applied research in the area of “Experimental Imaging and Image-guided Therapy” at the AG Grüll (University Hospital of Cologne & University of Cologne) is recruiting a

## **PhD Position “MR-HIFU for Cancer Therapy”**

You will be participating in a large-scale European Project related to Interventional Oncology performing preclinical research on new cancer therapies using high intensity focused ultrasound (HIFU) in a preclinical setting. Topics include liposomal drug delivery, biodistribution studies, and evaluation of immune response to HIFU treatments.

### **We are looking for:**

- A scientist with a Masters degree in chemistry, biology, (biomedical) engineering, or related fields
- Tasks include:
  - Active support of and participation in public funded ongoing research projects.
  - Preclinical MRI-HIFU research related to local drug delivery and immune therapy
  - Obtaining a FELASA certificate for in-vivo research is required!

### **We offer:**

- An attractive clinical and scientific environment, with full access to a comprehensive spectrum of state-of-the-art MR-HIFU equipment, radiological procedures, facilities and research tools.
- A good working atmosphere in a dynamic and interdisciplinary department.
- Interdisciplinary collaboration with other departments and partners (science and industry)
- In-house childcare facility.
- a fixed-term 3 year contract regulated by the German law (the so-called WissZeitVG) with option for one year extension.

### **To be successful in this role you will need to have in addition to the basic requirements:**

- Ideally first experiences with ultrasound or MRI, or willingness to familiarize yourself with the subject MR-HIFU in detail.
- First experiences with programming (e.g. Python or Matlab).
- Fluency in English.
- Skills in writing publications.
- Quick comprehension, coordination and organisational skills, ability to work in a team; multicultural social skills.

For further details, please contact Prof. Holger Grüll per email: [holger.gruell@uk-koeln.de](mailto:holger.gruell@uk-koeln.de) (with cc to [Christian.krauss@uk-koeln.de](mailto:Christian.krauss@uk-koeln.de))

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