

To strengthen our preclinical research team at the Medical University of Vienna, Department of Biomedical Imaging and Image-guided Therapy we are seeking to recruit an ambitious

PhD student in Molecular Biology (f/m/d)

Within the FWF funded Project “Inter-organ axes imaging using PET” (I 6174 International Projects in cooperation with the Institute Curie, France), the Department of Biomedical Imaging and Image-guided Therapy is seeking a motivated molecular biologist to perform research in cancer immunology. Present data of a human cancer cohort (publication in submission) using Visium spatial transcriptomics and immune histochemistry identified molecular pathways in the tumour microenvironment determining disease outcome. We aim to translate our findings from patients back into mice to study the underlying molecular mechanisms using transgenic mouse models. Embedded into an international project and within a strong local collaboration this project provides the opportunity for a highly motivated and proactive individual to excel in a multi-disciplinary team.

Tasks:

- Deploy and modify (e.g. CRISPR) transgenic mouse cancer models
- Generate μ PET/CT imaging data
- Perform multi-omics analysis of murine and patient tissue
- Bioinformatic analysis of genomic, transcriptomics and proteomics data (mice and human)
- Animal handling

Offer:

- Work closely within a dynamic and well-funded research team
- Enrolment in PhD Program: N094 Medical Imaging
- Support in dissemination of scientific results (publications, patents, project reports, conference talks)
- Close supervision by a motivated PI
- Strong interactions with and travel to national and international partners
- Participation in national and international conferences
- Supervision of Master Students
- Initial contract for 3 years with potential extension for 30 h/week and remuneration according to FWF currently at 2300,30 €/month (14 times a year).

Requirements:

- Master in a scientific field related to biomedical research (molecular biology, veterinary medicine or genetics)
- Meeting the admission requirements for doctoral programs at the MUW <https://www.meduniwien.ac.at/web/en/studies-further-education/application-admission/>
- Experience in cancer research and/or immunology
- Readiness to work with murine animal models

Skills and Abilities:

- Interest in translational work
- Experience with genetically modified mouse models
- Knowledge on applying standard bioinformatics tools
- Advanced spoken and written English communication skills

Chrysoula Vraka, Department of Biomedical Imaging and Image-guided Therapy

- Excellent organizational and problem-solving skills

Start date 01.06.2023

Please send your application by May 1st 2023 including personal motivation letter, letter of recommendation, detailed CV and graduation certificates (including credentials) to chrysoula.vraka@meduniwien.ac.at