

Doctoral Student Position (Dr. rer. nat.)

Department of Radiation Oncology

Examination of (osteo)immunological alterations after chronic low-dose exposure to ionizing radiation

The work group “Radiation Osteoimmunology” of the Translational Radiobiology (Prof. Dr. Gaipl) is offering a doctoral student position starting from October 2022 on. The doctoral student will be working on low ionizing radiation-mediated gender and age specific osteoimmunological effects.

The project is funded by the BMBF and is a highly translational orientated Junior Project “TOGETHER” within the NukSiFutur call.

- The project is focusing on gender and age specific osteoimmunological responses to low doses of ionizing radiation with x-rays and radon.
- The candidate is expected to partially work in Darmstadt at the Heavy Ion Research Center (Gesellschaft für Schwerionenforschung, GSI).
- The project is especially looking into monocytes, macrophages, T cells as well as bone cells of inflamed and healthy model systems.
- The candidate will work with state-of-the-art models and perform functional as well as phenotypic assays.
- Methods will include *in vitro* assays, multicolor flow cytometry, (multiplex) ELISA and colorimetric Assays, qPCR and microscopy.

We are looking for:

- Applicants with a Master or equivalent degree in life sciences, including biology, immunology, molecular medicine, or related fields.
- Highly motivated and curious applicants showing a high degree of intrinsic motivation and independency to bring in their own ideas and to develop the project.
- Applicants should have experience in immunology and cell culture.
- Experience in flow cytometry and animal models (FELASA B) is a plus.
- Proficiency in English text and speech.

We offer:

- Intended pay grade depending on qualifications and personal requirements according to TV-L E13 (65%).
- The third-party funded position is available for 4 years.
- The candidate will present her/his results in national and international conferences and will be supported to publish them in peer-reviewed journals.
- The FAU Graduate School of Life Sciences Life@FAU enables the doctoral student to participate in an interdisciplinary structured training program.
- Interesting job in a motivated, open-minded and interdisciplinary team.
- Careful and qualified training and support for the new challenge.
- A varied and responsible field of activity with opportunities for individual development.

- All benefits of the public service incl. supplementary pension plan of the Versorgungsanstalt des Bundes und der Länder (VBL) (Federal and State Government Employees' Retirement Fund).
- Family-friendly environment and, where appropriate, places in a dormitory.
- Crediting of work experience possible.

Comments:

- The preferred starting date is November 1st
- Project related publications: PMID: 35203348, 35046940; 31485459; 30332826; 30279685

Further Information:

Dr. Lisa Deloch

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Applications:

Your application should contain the following documents (merged as one PDF file):

1. Motivation letter
2. Curriculum vitae
3. Transcript of Records
4. Other relevant documents or certificates or letters of recommendation

Please address the application to:

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Please note that presentation costs can unfortunately not be covered.

