

PhD position in cell immunotherapy – CAR-NK cells

The research group “**Experimental Transfusion Medicine**” at Faculty of Medicine Carl Gustav Carus, Technische Universität Dresden (head: **Prof. Dr. med. Torsten Tonn**) is one of the world-leading groups in **CAR-NK cell immunotherapy** field. We are seeking for talented and highly motivated PhD student.

Starting as soon as possible.

Research focus:

CAR-NK cells have proven efficacy against a variety of tumors. The project focuses on the development of novel CAR-NK cells targeting novel indications such as severe autoimmune diseases. The project is a part of Saxocell consortium (winner of Clusters4Future) which aims to develop new areas of application and production methods for personalized gene and cell therapeutics, so-called »living drugs«.

Your role:

- For your PhD thesis, you generate CARs binding novel targets such as autoreactive immune cells and optimize signaling domains. You will also work with cancer models.
- Finally, you will generate product that will be developed for GMP production.
- You will use modern cloning methods to generate CARs; lentiviral and non-viral gene transfer methods; analyze NK cells, tumor cells or autoreactive immune cells using multi-parameter flow cytometry; use modern cytotoxicity methods including IncuCyte; use live and fixed cell imaging; utilize CRISPR-Cas9 technology; apply multi-omics approaches (transcriptomic, proteomics,...) and others methods.
- You do research under supervision of senior scientist and you benefit from our strong collaborative culture in Saxocell consortium, as well as national, international and industrial cooperations.
- You perform your experiments and documentation independently.
- You are expected to come with new ideas and shape your project.
- On a regular basis you thoroughly record your results and prepare project reports, which you present at internal group meetings.
- You are expected to publish your results in high-impact peer-reviewed scientific journals and present at recognized national and international conferences.

Your profile:

- You have a master’s degree in Biology (or related) with excellent grades. Good knowledge of immunology is great advantage.
- Ideally, you already had scientific experiences in the field of immunology and with the techniques and methodologies including cell culture, flow cytometry, molecular cloning and other molecular biology techniques, cell assays, cytotoxicity assays, cell transduction or transfection, microscopy and others.
- Solving biomedical questions sparks your interest, you bring a very good general scientific and technical understanding.
- You naturally show a diligent and focused work habit, you are efficient and goal-oriented.
- You demonstrate ample communication and collaboration skills and you display a talent for creative solutions.
- You are proficient in spoken and written English.

We offer:

- A challenging research project.
- Expertise in CAR NK cell immunotherapy field.
- A position within a vigorous and inspiring professional environment promoted by an open culture and a spirit of community.
- Cross-border intercultural cooperation and short communication channels.
- A modern workplace and exciting opportunities in the development of technologies with a secure future.
- You will be part of Saxocell community offering workshops for young scientists as well as advanced trainings (GMP, multi-omics,...).
- Access to our state-of-the-art Core Facilities and their technical expertise.
- Membership in one of our PhD programs.
- Support in your next career steps.

Please send your application documents (cover letter, CV including photo, certificates including examination grades, two references) until **30th November 2022** in one PDF document by email to: Dr. Jiri Eitler: j.eitler@blutspende.de.

About our group: <http://www.etm-dresden.com/>

About Saxocell: <https://www.saxocell.de>