

PhD Position in Megakaryocyte Biology

Nagy Lab, Institute of Experimental Biomedicine, Chair I, University Hospital Würzburg

How are megakaryocytes reprogrammed during inflammation?

Systemic inflammation, such as during sepsis, is frequently accompanied by changes in platelet count and function, yet the underlying alterations in megakaryocyte biology remain poorly understood. This project aims to investigate how inflammatory signals reprogram megakaryocyte differentiation and maturation and how these changes shape platelet production and function.

Research environment

This project is led by Dr. Zoltan Nagy (Emmy Noether Group Leader – Experimental Hematology) and embedded within the **DFG-funded Research Training Group RTG3190**.

The doctoral candidate will benefit from the collaborative and interdisciplinary environment of RTG3190 and the Würzburg Platelet Group, as well as access to state-of-the-art research infrastructure. The project is conducted in collaboration with Prof. Dr. Bernhard Nieswandt.

Research approaches

- Single-cell RNA sequencing
- Cell signalling
- Advanced imaging
- Mouse models
- Flow cytometry
- Cell culture
- Computational data analysis

Previous experience with any of these approaches would be beneficial.

We are looking for

Applicants with a Master's degree in Biology, Biochemistry, Biomedicine, Life Sciences, or related disciplines.

We value:

- Motivation
- Reliability
- Willingness to learn
- Scientific curiosity
- Teamwork

We offer

- Structured doctoral training within RTG3190
- Individual mentoring and career development
- Scientific exchange and international networking
- Opportunities to present and publish research
- Beautiful cell biology

Application

- CV
- Motivation letter (max. 1 page)
- Bachelor's and Master's transcripts
- Contact details of two referees
- Applications should be sent to nagy_z@ukw.de
- Preferred starting date: **As soon as possible**
- Applications will be reviewed on a rolling basis until the position is filled



Further information

Nagy Lab • <https://www.platelets.eu/biomed/nagy-lab/>

RTG3190 • <https://www.platelets.eu/rtg-3190/projects-rtg-3190/project-04/>