

Doctoral Thesis: Cell-specific activation of Wnt signaling in healing after myocardial infarction

Our research group “Immunity in cardiovascular disease” at the Heidelberg University Hospital focuses on the activation, source, kinetics, and function of leukocytes after cardiac injury. Our goal is to identify and understand pathomechanisms of cardiovascular disease and develop innovative therapeutic approaches.

Responsibilities

Join our team as a Ph.D. student on the topic “Cell-specific activation of Wnt signaling in healing after myocardial infarction”. The project is integrated in the SFB/CRC 1324. The position is limited to three years with the option of extension. The salary will be according to TV-L E13 (65%).

- As a Ph.D. student you will be part of a highly motivated team in an international setting that aims to improve myocardial healing following injury.
- You will work on one of the hot topics in cardiology: Immunocardiology.
- Furthermore, you will elucidate cell type-specific Wnt signaling activation in *in vivo* models of cardiac injury
- To this end, you will be familiarize with a broad range of state-of-the-art methods such as flow cytometry, spatial transcriptomics and light sheet fluorescence microscopy.
- In addition, you will apply and develop *in vitro* assays for the analysis of immune cell function
- Besides, you will summarize the data and write manuscripts to be submitted in peer-reviewed journals.

Requirements

- You are holding a master’s degree in biology, biochemistry, life sciences, or related disciplines
- Experience in cell culture experiments and hands-on experience in basic biochemistry and molecular biology techniques such as western blot, ELISA and RT-qPCR
- Ideally some experience and interest in bioinformatics and statistics (basic R knowledge preferable)
- Fluent in English and German to present scientific data to interdisciplinary and international audience.

Benefits

- You will work on exciting projects in an international and interdisciplinary environment
- Be part of a dynamic and highly skilled team where you can express your ideas and continue to learn
- You can resort to the expertise of renowned national and international research networks such as the DZHK, SFB/CRC or Leducq network.
- Make outstanding experiences and get a deep insight in top tier cardiovascular research.

Your application

If you are enthusiastic in advancing cardiovascular research send your application and CV to Prof. Dr. Florian Leuschner (Florian.Leuschner@med.uni-heidelberg.de)