The Chair of Stem Cell Research with Focus on cell-based Approaches to Regenerative Biomedicine (Prof. Dr. Michael Sieweke) at the Center for Regenerative Therapies Dresden (CRTD), an institute of the Center for Molecular and Cellular Bioengineering (CMCB), is offering a project position as

**Research Associate / Postdoc**
(Subject to personal qualification, employees are remunerated up to salary group E13 TV-L.)

prospectively starting on **01. November 2019**. The position, offered in the context of the ERC project MacAgeMacrophage aging and rejuvenation, is initially limited until 31. December 2021 (with the option to be extended). The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification.


The CRTD is one of the world's leading Regenerative BioMedicine centres and forms the interface between basic research and clinical application. The aim of the CRTD is to investigate the body's self-healing potential and to develop completely new regenerative therapies for previously incurable diseases. The position provides ample opportunity to interact with other researchers in regenerative medicine, immunology, cell biology, systems biology and biotechnology at the CRTD and neighbouring institutes on the campus. Research areas include haematology and immunology, diabetes, neurodegenerative diseases, bone and cartilage replacement as well as cardiovascular diseases, lung and liver regeneration. Research at CRTD is supported by access to high end platforms on flow cytometry, advanced imaging, deep sequencing and genome engineering, among others, through the joint technology platform of the CMCB (information on the joint technology platform is available at [http://biotp.tu-dresden.de/biotechnology-platform/](http://biotp.tu-dresden.de/biotechnology-platform/)).

**Tasks:**
The aim of the post-doctoral project will be to use mouse-genetics and genomics approaches to understand self-renewal, aging and replicative senescence mechanisms in macrophages and their impact on the health of the surrounding tissue of residence. The project will use existing or newly developed relevant mouse models to analyse genome wide changes in epigenetics and gene expression and their influence on resident macrophage populations and the surrounding tissue.

**Requirements:** Applications are invited from highly talented and enthusiastic researchers with a university and PhD degree and a strong track record. Evidence of one or more high impact publications in a relevant research field and training in international leading laboratories is a merit. Previous experience in experimental application of mouse genetics, molecular and cellular biology techniques to the study of immunology, aging or regeneration is desired but applicants with relevant experience working in other fields will also be considered. Applicants should have excellent interpersonal and communication skills, organizational skills to plan experimental bench-
work and the ability to work as part of a team as well as independently when required. Experience with state-of-the-art flow cytometry and molecular analysis (RNA and DNA sequencing, ChIPseq) of small cell numbers including single cells is desired. Experience with tissue analysis and imaging is an additional asset. Ability to stay on top of the relevant research field is an absolute requirement as well as good knowledge of spoken and written English. We are looking for a highly motivated, ambitious, effective and interactive candidate capable of leading a high-profile research project through active pursuit of relevant experiments, and through regular interactions with the group leader and important collaborators within and outside the research institute.

Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your application documents, including a letter of motivation describing published and ongoing work, CV, letter or contact for 3 references and a statement of future research interest until **30.08.2019** (stamped arrival date applies) preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de as a single PDF file to jeannette.hoppe@tu-dresden.de or alternatively to: TU Dresden, CRTD, Frau Jeannette Hoppe, Fetscherstraße 105, 01307 Dresden.

Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis.