

At the **Center for Regenerative Therapies Dresden (CRTD)**, an institute of the Center for Molecular and Cellular Bioengineering (CMCB), the **Chair of Molecular and Cellular Immunology - focus Immunoregulation** (Prof. Dr. Karsten Kretschmer) is looking for a highly motivated and talented

Research Associate / PhD Student (m/f/x)

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

The position is, subject to the availability of resources, starting **October 1, 2022**. We offer a position with 65 % of the fulltime weekly hours for initially 3 years with the possibility of extension. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG). The position offers the chance to obtain further academic qualification (e.g. PhD).

The research interests of our chair focus on molecular and cellular pathways that govern the generation, lifestyle and function of Foxp3+ regulatory T (Treg) cells (webpage: <https://tu-dresden.de/cmcb/crtd/forschungsgruppen/crtd-forschungsgruppen/kretschmer>). Treg cells play an essential role in maintaining immune homeostasis, which is exemplified by the observation that acute Treg cell ablation in a NOD mouse model of human type 1 diabetes unleashes overt autoimmune diabetes within days (Petzold et al., J Diabetes Res 2013; Mayer et al., Immun Inflamm Dis. 2014; Watts et al., Front Immunol. 2021). Conversely, Treg cells represent exciting gain-of-function targets in clinical settings of unwanted immune responses, such as autoimmune diseases.

Tasks: The research position we offer is part of a project in which we aim to investigate the molecular and epigenetic mechanisms underlying the development and maintenance of Foxp3+ Treg cell sublineages of thymic and peripheral developmental origin (Schallenberg et al. E Exp Med. 2010; Petzold et al. Eur J Immunol. 2014.) In this context, a particular focus is placed on exploring the possibility that different developmental Treg cell subsets exert specialized effector functions in the control of organ-specific autoimmune disease, metabolic homeostasis, and tissue regeneration. The position will give you an excellent chance for further academic study and research.

Requirements: We aim at attracting the best talent in the respective research fields and expect the following: an outstanding university degree in Biology, Science or related field of science; experience in T cell immunology, multicolor flow cytometry, Cre/loxP system in mice, autoimmune mouse models, epigenetics and transcriptomics; ability to work in an international team is essential; inter- and multidisciplinary thinking; high motivation; an integrative and cooperative personality with excellent communication and social skills; fluency in English – written and oral.

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

Application Procedure:

Your application **as one single pdf document** should include:

1. Cover letter, indicating current and future research interests and career goals;
2. Description of research experience and accomplishments, including summary of previous research done during your master thesis (max. 2 pages);
3. List of publications, if applicable;
4. CV, including copies of degree certificates and transcript of grades (i.e. the official list of coursework including your grades);
5. Two letters of recommendation or contact information for two references, including current supervisor.

Please submit your comprehensive application by **August 12, 2022** (stamped arrival date applies), preferably via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf-document (using "surname_firstname.pdf") to silvia.palme@tu-dresden.de or to: **TU**

Dresden, CRTD, Professur für Molekuläre und Zelluläre Immunologie - Schwerpunkt Immunregulation, z. Hd. Frau Silvia Palme, Fetscherstr. 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://tudresden.de/karriere/datenschutzhinweis>.