



Are you passionate about fascinating important scientific questions?
Do you want to understand how self-renewing macrophages fight cancer and protect against aging? Or what defines stemness in macrophages on the molecular level?
We have several exciting post doc projects available.
Please apply

to the lab of **Alexander von Humboldt Professor** [Dr. Michael Sieweke](#), chair of stem cell research and cellular therapies at the [CRTD](#), for a position as

Research Associate / Postdoc (m/f/d)

The Center for Regenerative Therapies Dresden (CRTD) is a unique research center at the TU Dresden with a focus on regeneration and stem cell research from fundamental research to clinical applications. The Sieweke lab studies how immune cells, especially macrophages, influence regeneration, aging, and cancer. We investigate how gene regulatory mechanisms and long-term epigenetic changes control self-renewal, activation, cell aging, and "trained immunity" in mouse and human cells (e.g., PMID: [35210623](#), PMID: [32169166](#), PMID: [26797145](#)) available immediately and with a long-term perspective.



Possible projects include questions of

the role of self-renewing macrophages in tumor biology, the relation of self-renewal and alternative M2 like macrophage polarization, Molecular differences of proliferation in tumorigenic transformation and Self-renewal, Identification of new stemness mechanism in macrophages Aging and epigenetic memory in macrophages

Your profile

- PhD degree in biology, biomedicine or related subject .
- FACS, Cell culture, mouse genetic, human cell competence (one or multiple)
- Immunology, stem cell, aging or oncology preferably tumor immunology background
- basic bioinformatic skills (single cell, ATACseq) are a plus
- quality publications or similar achievements
- good organizational, communication, interpersonal skills

We offer:

- Medically relevant projects to develop new therapies against cancer and other diseases
- Outstanding research environment in biomedicine, genomics and bioinformatics.
- Implement your own ideas and engage in diverse work in a friendly, international team
- Attractive benefits (flexible working hours, childcare in close proximity, training programs, career development and company pension plan, sports facilities, health promotion services)
- Collaboration with a start-up company emerging from our academic research.

We are happy to answer any further questions. Please contact corinna.barth@tu-dresden.de for informal inquiries. Further information and details how to submit a full application at TU Dresden https://www.verw.tu-dresden.de/StellAus/download.asp?file=11-2023\Barth_Postdoc_eng_05102023_w23-378.pdf

