

Technische Universität Dresden - CRTD, Junior Research Group Gene regulatory mechanisms of neocortex evolution



The Center for Regenerative Therapies Dresden (CRTD), an institute of the Center for Molecular and Cellular Bioengineering (CMCB), is a research center at the TU Dresden with currently over 20 research groups and approximately 250 employees. The research focus of CRTD lies in regeneration and stem cell research. Our research approaches range from fundamental research to clinical-translational applications. The researchers at the institute develop new approaches for diagnoses and therapeutic options in the areas of hematology/immunology, diabetes, neurodegenerative diseases, and bone and tissue regeneration. For TUD Dresden University of Technology diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

Research Associate / Postdoc (m/f/x)

At the CRTD, the Chair of Epigenomics of Neural Development of Prof. Dr. Mareike Albert offers a position as Research Associate / Postdoc (m/f/x) (subject to personal qualification employees are remunerated according to salary group E 13 TV-L) starting as soon as possible. The position is limited to 4 years. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification (usually habilitation thesis). The Chair of Prof. Dr. Mareike Albert studies the neocortex, the brain region that is considered to be the seat of higher cognitive functions in humans. The group is interested in the mechanisms that regulate gene expression in neural progenitor cells, which have implications for our understanding of neocortex development and evolution, neural stem cell regulation and neurodevelopmental disorders. The group utilizes in vivo models and human cortical organoids models in combination with a wide range of molecular, genetic, imaging and genomics technologies.

City: Dresden; Starting Date: At the earliest possible; Duration: limited to 4 years;
Remuneration: subject to personal qualification employees are remunerated according to salary group E 13 TV-L; Closing date: 27/11/24

Working field

We are looking for an independent, passionate, and motivated Postdoc to study the development and evolution of the neocortex, focusing on gene regulatory mechanisms in neural progenitor cells, neurogenesis and neuron maturation. The successful applicant will have a leading role in implementing single cell technologies (scRNA-seq, CyTOF etc.) and electrophysiological analysis and work in a collaborative manner within our international group. You are expected to be involved in collaborations with the Carl Gustav Carus Faculty of Medicine, Cluster of Excellence "Physics of Life" (PoL), the Max Planck Institute for Cell Biology and Genetics, as well as with other neighboring institutes and international institutions. You will be expected to contribute to teaching in the field of epigenetics, stem cells and neurobiology and to the supervision of rotation and thesis projects. If you enjoy new challenges and want to contribute with your expertise and

knowledge to the unsolved questions in neurodevelopment, then become part of our team.

Requirements

You have a university and PhD degree in biology, genetics, neuroscience or a related subject. You have experience in mouse genetics or organoid generation, single cell sequencing technologies, and bioinformatics skills, particularly in the analysis of scRNA-seq data. Your background involves neurogenesis, stem cells, gene expression and/or epigenetics. You are capable of autonomously leading a high-profile research project and your scientific achievements include quality publications or preprints. You have excellent communication skills in written and oral English, very good interpersonal skills, work in a highly organized manner and maintain a good overview of the relevant literature.

Application

We are happy to answer any further questions. Please contact **mareike.albert@tu-dresden.de** for informal inquiries.

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university and offers a Dual Career Service. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your application including a CV in tabular form, a letter of motivation, contacts for two references, a compilation of up to three publications and certificates of your degrees by November 27, 2024 (stamped arrival date or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf file to **mareike.albert@tu-dresden.de** or to: TU Dresden, CRTD, Frau Prof. Dr. Mareike Albert, Fetscherstr. 105, 01307 Dresden, Germany. Please submit copies only, as your application will not be returned to you, and attach all documents to your application in electronic form (USB storage medium). 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>.

More information at <https://stellenticket.de/188921/LUH/>

Offer visible until 27/11/24

