

A photograph of a smiling female research assistant in a white lab coat, working in a laboratory. She is standing next to a microscope and some lab equipment. The background is slightly blurred, showing other lab equipment and a clean, professional environment.

Research Assistant (m/f/d) in Single-Cell Omics & TCR Validation

Full Time - Mainz

We are looking for support in our **Single-Cell Omics** unit to start as soon as possible as parental leave replacement. The successful candidate will be working with patient biopsies, cell lines and murine tissue samples to support the establishment and apply state-of-the-art multiomic single cell sequencing methods and immunoassays to contribute to the development of novel immunotherapies against cancer and other diseases.

Your tasks and responsibilities:

- Process primary samples (healthy donor and patient tissues), including handling of fresh, cryopreserved, or fixed material and tissue dissociation
- Routine cell culture work (e.g. passaging, harvesting, counting, assess viability, plating, freezing, thawing)
- Maintenance and expansion of mammalian primary cells (e. g. 2D and 3D tumor cell lines, TIL expansion and co-culture systems)
- Carrying out flow cytometry experiments and preparation of cell suspensions for sorting
- Preparation of single cell or nuclei suspensions for NGS-based single cell sequencing (scRNA-seq, scTCR-seq, scATAC-seq) using the 10x Genomics platform
- Generation of cDNA and ATAC libraries and preparation for sequencing on the Illumina platforms (MiSeq or NovaSeq 6000)
- Performance of functional TCR validation assays (e.g. ELISpot and killing assays)
- Training of new employees and writing standard operating procedures (SOPs)
- Timely generation of high-quality data and comprehensive documentation and communication of results

What you bring:

- A completed professional training as BTA/MTA, biological laboratory assistant, or a Bachelor (B.Sc.)/Master (M.Sc.) degree in natural sciences
- Experience in molecular biology techniques (RNA extraction, PCR, NGS library preparation) is required
- Experience in mammalian cell culture is essential
- Experience in immunological techniques (e.g. ELISA, flow cytometry) would be of advantage
- Any practice in processing primary samples (patient material, mouse samples) would be a plus
- Strong organizational skills and excellent time management
- Very good oral and written communication skills in English and German
- Excellent sense of responsibility, attention to details and high reliability are essential

Enthusiasm and curiosity for the diverse activities of our research institute as well as the ability to work in an international team completes your profile.

We offer:

- A dynamic, innovative and creative research environment
- An open, collegial and cordial working atmosphere in a respectful corporate culture
- Highly interactive working environment across teams
- A high degree of diversity in the workforce
- Flat hierarchies
- Performance-related remuneration and other benefits
- The opportunity for personalised further training
- Job ticket (Deutschlandticket) incl. employer allowance
- Bike leasing (Businessbike)
- The opportunity for hybrid working

TRON is an internationally recognized institute for application-oriented research. We combine the strengths of academic research with the requirements of quality-controlled industrial developments. At TRON, we share a common mission to develop innovative solutions for the immunotherapeutic treatment of cancer, infectious diseases and other serious diseases with high medicinal need for development.

TRON was founded in Mainz in 2010 and works in close cooperation with universities and hospitals as well as with regional, national and international research institutions and pharmaceutical companies.

As part of our team, you have the opportunity to be at the forefront of translational science with us.

If all this appeals to you, we look forward to getting to know you.

Please send us your complete and informative application documents (cover letter, CV, references) in a single document of max. 5 MB by e-mail to Human Resources at **jobs (at) tron-mainz.de**, Job-ID: **43302-25-02-TA**.

For more information, visit our homepage at www.tron-mainz.de