



Technical Assistant (m/w/d) in Single Cell Omics & TCR Validation

Full Time - Mainz

We are looking for support in our **Clinical Cancer Genomics** unit to start as soon as possible. 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 single cell sequencing methods and immunoassays to contribute to the development of novel immunotherapies against cancer and other diseases.

Your tasks and responsibilities:

- Processing including dissociation of fresh, thawed or fixed healthy or patient tissues
- Performance of routine cell culture work including maintenance and expansion of mammalian primary cells (e. g. 2D and 3D tumor cell lines and TIL expansion)
- 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 and multiomics) 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) and immunogenic antigen screens
- Training of new employees, supervision of automated laboratory processes and writing standard operating procedures (SOPs)
- Timely generation of high-quality data and communication of results to the team

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 required
- Previous professional experience would be desirable
- 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 of advantage
- Strong visual, verbal, and written communication skills in English and German as well as strong sense of responsibility and high reliability are essential

Enthusiasm and curiosity for the diverse activities of our research institute as well as the ability to work in a 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
- Good transport connections by public transport and car as well as bicycle parking spaces
- The opportunity for hybrid working

TRON is an internationally recognised 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: 51012-25-01-TA.

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