

Single-Cell RNA Sequencing



Explore Cellular Diversity at the Single-Cell Level

The human body consists of more than 30 trillion cells. Within an organ or tissue, different cell types and cell populations occur. These cells are highly heterogenous regarding their transcriptional state. The cellular heterogeneity is an important feature of normal physiological processes. Different cell types and populations have different cellular functions, which are all required for the tissue's or organ's correct functioning. During disease progression, the composition of the different cell populations and their transcriptome may change or even contribute to the disease.

Traditional bulk RNA sequencing methods cannot resolve the heterogeneity of samples of different cell populations. However, single-cell RNA sequencing technologies now enable the analysis of individual transcriptomes from thousands of cells in a single sample. Thus, this technology can help resolve the transcriptional change on a cell type-specific level that may lead to the identification of new biomarkers or help further understand the biology of tissues or diseases.

We help you explore your samples' cellular diversity by providing high-throughput 3' Single-Cell RNA Sequencing (3' SCR).

Want to Discover More?

We invite you to take a look at our website.
www.cebata.com/single-cell-rna-sequencing



Explore Our Product for Single-Cell RNA Sequencing

	3' SCR
Species	Human, mouse Other species might be possible upon request
DNA quality	Frozen single cell suspensions
Sample requirements	1 million cells in 1 ml cryopreservation medium > 90% cell viability Other samples might be possible upon request
Platform	Chromium™ system (10x Genomics®) Illumina
Output	Flexible
Included deliverables	Project report & FASTQ files



Application areas of single-cell RNA sequencing:

- ✗ Detection of tumor heterogeneity
- ✗ Cell differentiation and lineage tracing
- ✗ Response to therapeutic interventions
- ✗ Biomarker discovery



About Us

CeGaT was founded in 2009 in Tübingen, Germany. Our scientists are specialized in next-generation sequencing (NGS) for genetic diagnostics, and we also provide a variety of sequencing services for research purposes and pharma solutions. Our sequencing service portfolio is complemented by analyses suited for microbiome, immunology, and translational oncology studies.

Our dedicated project management team of scientists and bio-informaticians works closely with you to develop the best strategy to realize your project. Depending on its scope, we select the most suitable library preparation and conditions on our sequencing platforms.

**We would be pleased to provide you with our excellent service.
Contact us today to start planning your next project.**



Accredited by DAKKS according to
DIN EN ISO/IEC 17025:2018



CLIA CERTIFIED ID: 99D2130225

CeGaT GmbH
Research & Pharma Solutions
Paul-Ehrlich-Str. 23
72076 Tübingen
Germany

Phone: +49707156544-333

Fax: +49 707156544-56

Email: rps@cegat.com

Web: www.cegat.com/rps