



SINGLE CELL DISCOVERIES

Complete single-cell RNA sequencing services

Our state-of-the-art single-cell sequencing lab is run by a team of PhD-level experts. With deep technical knowledge, we leverage innovative platforms to deliver exceptional service.

At Single Cell Discoveries (SCD), we provide tailored solutions that match the right technology and analysis to address your biological questions. We do this with some of the fastest turnaround times in the industry— less than 4 weeks for single-cell experiments and just 2 weeks for sequencing. With over a decade of expertise in single-cell sequencing, you can leave your project to us and focus entirely on advancing your discoveries.

Why choose SCD?

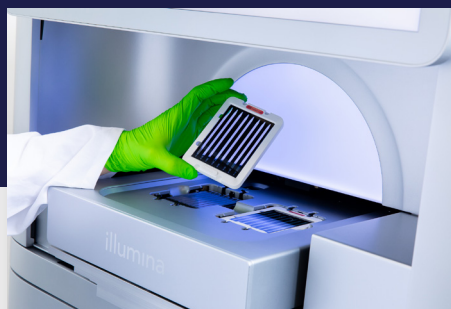
- **Unmatched Expertise:** With over 12 years of experience, we are single-cell technology leaders.
- **Custom Solutions:** We design and execute bespoke projects tailored to your specific scientific and research needs.
- **End-to-End Service:** From sample sourcing to advanced data analysis, we can cover the entire workflow seamlessly.
- **Commitment to Quality:** We go the extra mile to ensure the highest quality data, optimizing outcomes for your research and turnaround time needs.
- **Collaborative Approach:** Our high-touch, client-focused engagement ensures we work closely with you at every stage.
- **Innovative R&D:** Our in-house R&D team continuously develops cutting-edge methodologies to enhance our offerings.

How we work



Design

Strategize with our PhD-level account executives to decide between multiple single-cell sequencing technologies, including ones offered exclusively by us. Leverage our experience with 200+ clients over 1000+ unique projects.



Process

We'll process your samples in our unique single-cell laboratory, with our in-house Illumina NovaSeq X Plus. Benefit from our experience with 8500+ samples sequenced in 40+ organisms and 30+ tissue types.



Analyze

Gain quick insights into your single-cell data with our preliminary analysis report with QC, clustering, and differential gene expression. Uncover insights through custom data analysis with our bioinformaticians.

Services



SORT-seq/VASA-seq

Plate-based single-cell transcriptomics technology with high sensitivity and flexibility. Compatible with many sample types and low cell input. SORT-seq detects 3' PolyA mRNA, while VASA-seq generates full-length reads, including non-PolyA RNA. Uniquely offered by SCD.



Plate-based immune profiling

A highly sensitive single-cell RNA sequencing platform for profiling T and B cell receptors and gene expression. As an adaptation of SORT-seq, it retains FACS compatibility, making it suitable for samples with low cell numbers. Developed and provided exclusively by SCD.



10x Genomics

High-throughput single-cell sequencing based on microfluidics to effortlessly analyze thousands of cells. We are a Certified Service Provider of 10x Genomics and perform all assays. Additionally, we provide sequencing-only of 10x Genomics libraries.



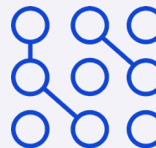
Combinatorial barcoding

Split-pool combinatorial barcoding is scalable (in the millions) and cost-effective. We are service providers for single-cell sequencing for Scale Biosciences (3' gene expression) and Parse Biosciences (whole transcriptome).



Bulk RNA sequencing

High-quality method based on single-cell chemistry to analyze pooled cell populations, tissue sections, and biopsies. Available for low-input samples, down to as little as 100 cells. We also offer full-length, total RNA-seq readouts.



Discovery-seq

A cost-effective, accurate 3' bulk RNA sequencing method for large-scale transcriptomics, compatible with various cell lines and organoid models, improving high sensitivity and eliminating PCR bias.

Applications

Drug screening

Single-cell sequencing enables drug developers to speed up and enhance their research across the drug development pipeline. The technique enables you to for example compare gene expression of healthy vs disease or treated vs non-treated samples in high resolution. Our services support you with biomarker discovery, target identification, lead optimization, preclinical studies and clinical trials.

Immune profiling

Use the 10x Genomics Single Cell Immune Profiling solution to characterize the immune repertoire at single-cell level, for example in tumor microenvironment and immuno-oncology studies. Identify gene expression combined with cell-surface protein expression, full-length VDJ-sequences, or T-cell receptors ($\alpha\beta$). A tailored service for $\gamma\delta$ T-cell receptor single-cell immune profiling is supported by us.

Biodistribution

Single-cell sequencing in biodistribution studies can validate and quantify transduction efficacy per cell and per tissue to rank candidate vectors. Characterize biodistribution to different cellular subtypes, enabling candidate vector stratification and optimization of transduction efficiency and specificity. Or, reveal how therapeutic transgene expression directly influences the cellular transcriptome.



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