

Single-cell RNA Sequencing

Single-cell RNA-Seq can be used to examine the expression of individual cells and provides a higher resolution of cellular differences as compared to traditional RNA-Seq. Single-cell RNA-Seq enables us to understand the function of an individual cell in the context of its microenvironment.

Applications



Build the large-scale cell atlas



Trace the development and differentiation of stem cells



Explore the tumour initiation, maintenance and evolution

Our Features & Advantages



Advanced Technology & Instruments

We have collaborated deeply with 10x Genomics to establish a joint laboratory for single-cell sequencing, which enables rapid and accurate sorting and validation of target cell populations.



Extensive Experience

We have mastered the sample preparation methods for over 350 tissues from more than 50 species, finishing over 10,000 single-cell sample preparation and scRNA seq.



Professional Team

We have experienced experts to assist you with experimental design and data interpretation.



Reliable & Fast Turnaround Time

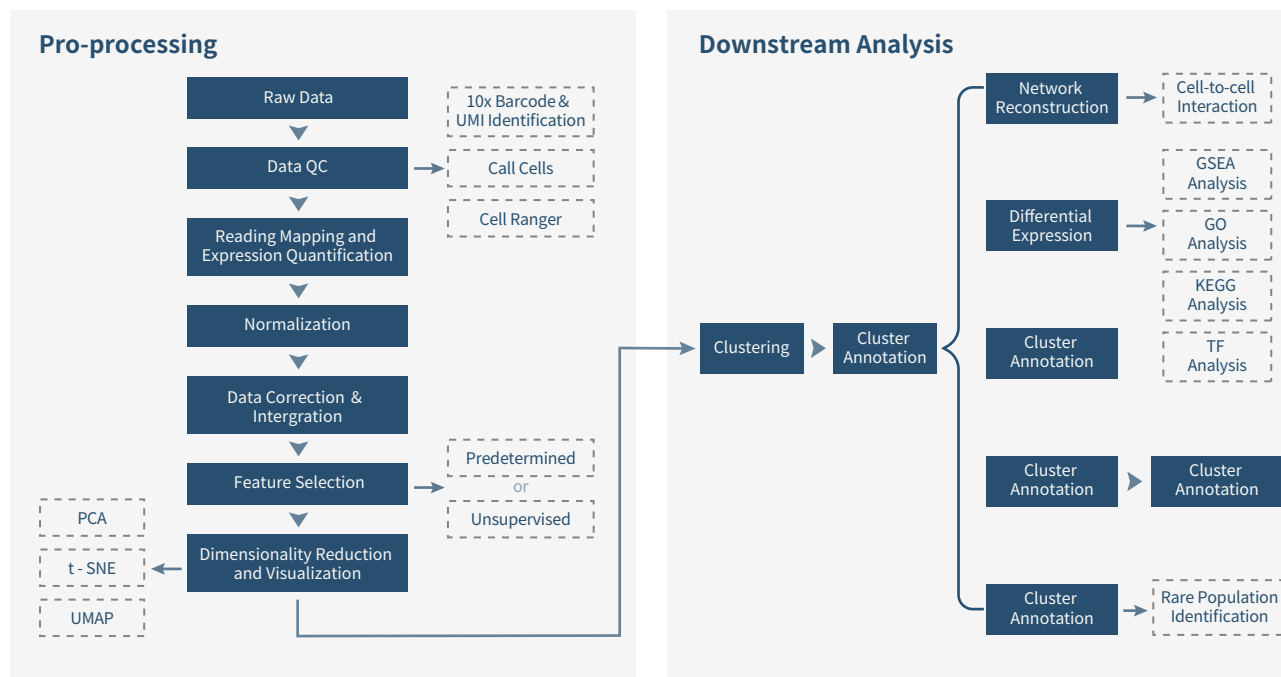
A dedicated project manager will be provided and the results will be given to you within 20 business days after sample quality verification.

Project Workflow



Sequencing Strategy: illumina Novaseq platform, PE150 bp, 100 Gb raw data/sample

Bioinformatics Analysis Pipeline



Sample Requirements

| Sample Type | Sample Amount | Purity |
|---------------------|---|---|
| Frozen cell service | Freeze more than 1,000,000 cells per vial and submit at least two 1.5mL cryovials | <ul style="list-style-type: none"> Cell viability should be > 90% before freezing. Sample must be clear form debris, clean background before freezing. Please provide images of your single cell suspensions before freezing with scale bar. Cell size has be <40µm. |

Recent Publications

| Journal | IF | Title | Year |
|-------------------|------|---|------|
| Circulation | 37.8 | Bestrophin3 Deficiency in Vascular Smooth Muscle Cells Activates MEK-K2/3-MAPK Signaling to Trigger Spontaneous Aortic Dissection | 2023 |
| Cell Discovery | 33.5 | Molecular and cellular evolution of the amygdala across species analyzed by single-nucleus transcriptome profiling | 2023 |
| Nature Immunology | 30.5 | YTHDF2 orchestrates tumor-associated macrophage reprogramming and controls antitumor immunity through CD8+ T cells | 2023 |

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