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Global Leaders in Single-Cell and Spatial

One-Stop Service Guide

Single-Cell Transcriptomics

Omics Empower is at the forefront of high-throughput single-cell transcriptomics, having facilitated the publication of 340+ journal articles with a robust portfolio of over 2000 projects and 20,000+ samples, spanning 400+ tissues and 60+ plants. Our extensive experience provides unparalleled insights into the field.

Applicable Fields

Medical Research | **Agriculture & Animal Science** | **Biotechnology**

Our Process Workflow

1. Sample Reception
2. Tissue Processing
3. Single-Cell Suspension Preparation
4. Library Construction
5. Sequencing (Illumina X Plus / MGI DNBSEQ-T7)
6. Bioinformatics Analysis

- Simply send us your samples (fresh, frozen, or FFPE), and we will handle the entire process -

Why Choose Us?

Rich Project experience
Over 2000+ projects spanning diverse species

Data Security
Compliant storage and transfer.

Fast Turnaround Time

Rigorous Experimental Quality Control

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Sample Submission Guidelines

General Requirements

- Cell Viability: **>85%**
- Cell Concentration: **7×10^5–1.2×10^6cells/mL**
- Cell Size: **Diameter <40 μm (For cells > 40 μm, single-cell nuclear sequencing is recommended)**
- Buffer Compatibility: **Avoid Ca^{2+}, Mg^{2+}, or EDTA-containing solutions**

Single-Cell Sequencing

Sample Type	Quantity	Transport Condition	Time Limit
Fresh Blood	5 mL (EDTA tube)	4°C	<8 hours
Fresh Tissue	5 mm^3 in preservative	4°C	<30 hours
Body Fluids	15–50 mL tube	4°C	<8 hours
Cryopreserved Samples	In freezing medium	Dry ice	-
Plant Samples	Whole plant	Live transport	-

Single-cell nuclear Sequencing

Sample Type	Quantity	Transport Condition	Time Limit
Fresh Blood	5 mL (EDTA tube)	4°C	<30 hours
Fresh Tissue	5 mm^3 in preservative	4°C	<30 hours
Cryopreserved Tissue	200 mg tissue	Liquid nitrogen → Dry ice	-

Enhancing Efficiency and Precision with Expert Commitment

Our seasoned team and technical experts are always ready to support your project, ensuring that it is guided by the principles of reliability that scientists depend on. Our goal is to make your research work more eficient and accurate through our services.

Germany:
Kreuzstr.60,40210 Düsseldorf

www.omicsempower.com

Singapore:
112 ROBINSON ROAD #03-01

eva.zhang@omicsempower.com

United States:
2 Goddard, Irvine, CA 92618