

Transforming Data into the Power of Your Research



OE Biotech Presents In-Depth Personalized Single-Cell Data Mining Services

Our Achievements

We possess top-notch single-cell technology globally, with 3 major single-cell transcriptome platforms: 10x Genomics, BD Rhapsody, MobiNova, and 4 major spatial transcriptome platforms: 10x Genomics Visium, CytAssist, Xenium, and BGI Spatial Omics, ensuring our services are at the forefront of the industry. We are proud to have assisted our clients in publishing over 300 articles related to single-cell technology. We are grateful that our single-cell technology has been acknowledged in over 150 articles, with 36 specifically thanking our bioinformatics services, and we have co-authored 12 articles in the field of spatial transcriptomics.

Dublin
Düsseldorf

Our Global Network

Our subsidiaries are located in **Shanghai, Qingdao, Haikou and Singapore**. And we will soon open subsidiaries and laboratories in European regions including **Düsseldorf and Dublin**.

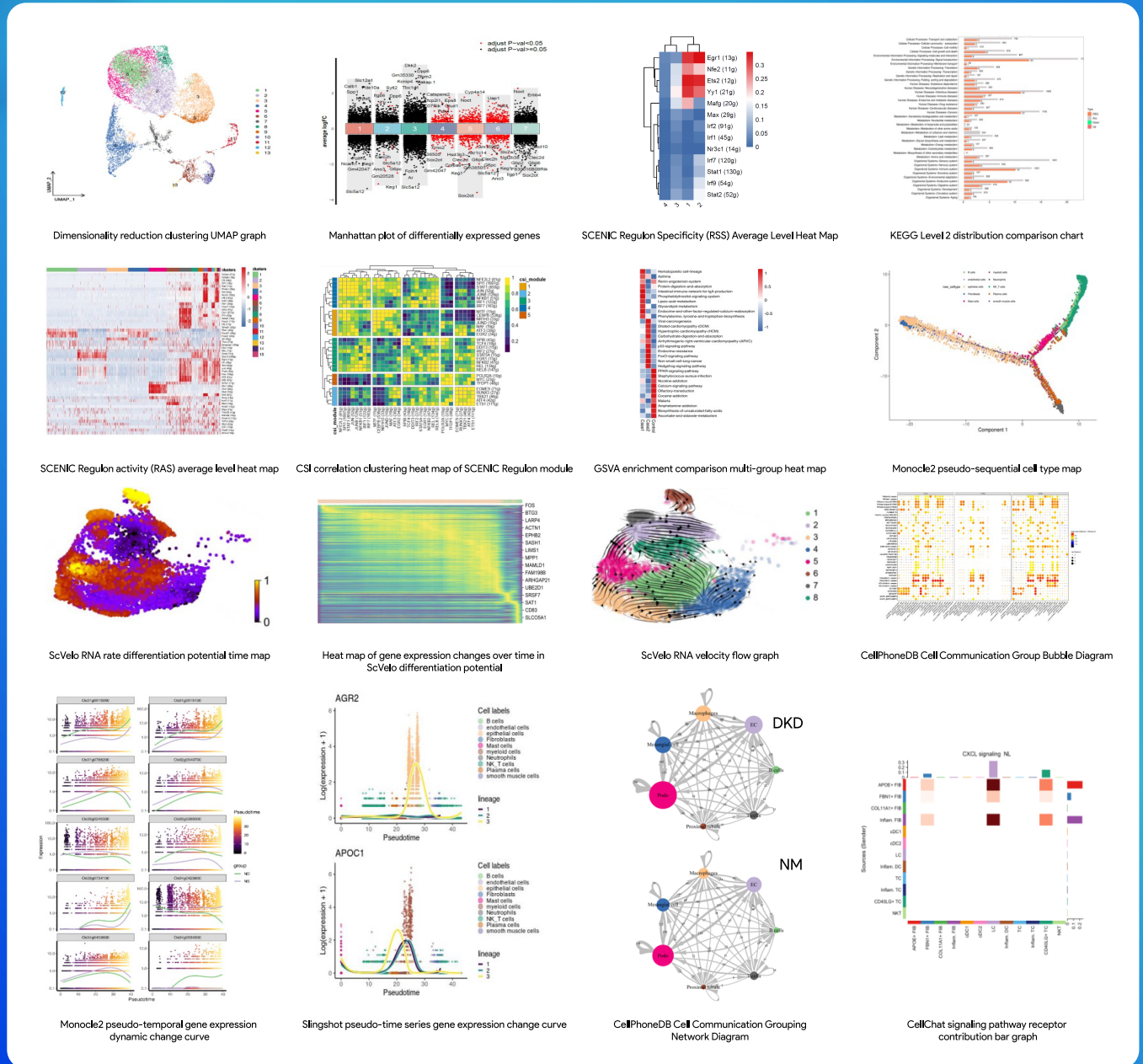


Presentation of Our Single-Cell Sequencing Data Analysis Services

Matrix file

- 01 / Quality control**
 - Filter low-quality cells
 - Remove batch effects
 - Filter low-abundance genes
 - Handle dropouts
 - Remove cell cycle interference (optional)
- 02 / Cell heterogeneity analysis**
 - UMAP/TSNE Dimensionality reduction clustering
 - Seurat Cell cycle analysis
 - ScVelo analysis
 - Marker gene identification, cell type identification, cell subpopulation identification
 - Quasi-series analysis (Monocle2/ Monocle3 / Slingshot/ Diffusion Map / STEAM / SCORPIUS)
 - SCENIC Transcription factor analysis
 - CNV analysis (InferCNV/CopyKAT)
- 03 / Gene expression analysis**
 - GO/KEGG/Reactome Analysis
 - Metabolic analysis (scMetabolism/scFEA/Mebocost)
 - GSEA/GSVA Analysis
 - WGCNA Analysis
 - PPI Analysis
 - Cell communication analysis (CellPhoneDB/ CellChat / NicheNet)

Some analysis results case presentation



OE Biotech cooperation article case

<p>ESC European Society of Cardiology European Heart Journal (2024) 45, 2235–2250 https://doi.org/10.1093/eurheartj/ehae188</p> <p>TRANSLATIONAL SCIENCE Cardio-oncology</p> <p>Rescue of cardiac dysfunction during chemotherapy in acute myeloid leukaemia by blocking IL-1α</p> <p>Xingliang Zhou^{1†}, Yiwei Liu^{1,2,4†}, Yi Shen^{1,5†}, Lijun Chen¹, Wenting Hu⁴, Yi Yan⁶, Bei Feng⁶, Li Xiang⁶, Yifan Zhu⁶, Chenyu Jiang⁶, Zihao Dai⁶, Xu Huang⁶, Liwei Wu⁶, Tianyu Liu⁶, Lijun Fu⁶, Caiwen Duan⁶, Shuhong Shen^{1,5}, Jun Li⁶, and Hao Zhang^{1,4,6}</p> <p>Journal: European Heart Journal (IF = 37.6) Date of publication: 2024.4.12 Unit: Shanghai Children's Medical Center, Shanghai Jiao Tong University School of Medicine Sample type: Human heart tissue</p>	<p>SCIENCE IMMUNOLOGY RESEARCH ARTICLE</p> <p>IMMUNOTHERAPY</p> <p>Single-cell analysis of anti-BCMA CAR T cell therapy in patients with central nervous system autoimmunity</p> <p>Chuan Qin^{1,2†}, Min Zhang^{1,2†}, Da-Peng Mou³, Luo-Qi Zhou^{1,2}, Ming-Hao Dong^{1,2}, Liang Huang⁴, Wen Wang⁵, Song-Bai Cai⁶, Yun-Fan You^{1,2}, Ke Shang^{1,2}, Jun Xiao^{1,2}, Di Wang¹, Chun-Rui Li¹, Yi Hao⁷, Michael Heming⁸, Long-Jun Wu⁸, Gerd Meyer Zu Hörste², Chen Dong⁹, Bi-Tao Bu^{1,2}, Dai-Shi Tian^{1,2*}, Wei Wang^{1,2*}</p> <p>Journal: Science Immunology (IF = 24.8) Date of publication: 2024.5.10 Unit: Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology Sample type: Human cerebrospinal fluid & blood PBMC</p>
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If you are interested in single-cell sequencing analysis products or wish to learn more about our services, we warmly welcome you to contact us at any time. We look forward to collaborating with you to explore the endless possibilities of biotechnology.

Our Commitment

Our seasoned bioinformatics 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 efficient and accurate through our services.

Please feel free to reply to this email, and we will provide you with more information or arrange a meeting to discuss your needs in more detail.