Supplementary Materials

背景图案

中度可信度描述已自动生成

Fig. S1. The clustering performance of scTSNN and baseline scRNA-seq clusterings under different combinations of hyperparameters *T* and *K* on datasets Ting, Treutlin, Chen, Usoskin, Zeisel, Yan, Goolam, Patel, and Campbell.

TABLE SI

The differentially expressed genes (DEGs) of epithelial subcluster cells on spatial transcriptome dataset of cervical cancer tumors

|  |  |
| --- | --- |
| ep.subcluster\_1 | COL1A2, SFRP4, COL3A1, COL1A1, IGHG3, ACTA2, IGHD, IGHA1, SFRP1, IGLC1, JCHAIN, IGFBP5, PTGDS, IGKC, IGHG1, MMP11, COL6A3, DCN, SPARC, IGFBP7, AEBP1, CCN2, BGN, COL5A1, FN1, VIM, IGHG2, IGF1, PCOLCE, VCAN, MMP2, , |
| ep.subcluster\_2 | SFRP4, NTS, IGHG4, COL1A1, COL3A1, PEG10, IGFBP5, COL1A2, PTPRT, KIAA1324, FOS, SFRP1, SCGB1A1, PTGDS, IGHA1, JCHAIN, UPK1B, PSCA, IGF1, LRATD1, RDH10, HEY1, COL4A5, ALCAM, CLDN3, IGHG2, KRT18, CREB3L1, EPHX1, |
| ep.subcluster\_4 | KRT13, S100A8, S100A9, KRT14, KRT4, FABP5, IL20RB, LY6D, APOL1, KRT16, SPRR2A, EGLN3, PI3, ADM, DUOX2, SLC2A1, ALDH3A1, SPRR2D, NECTIN1, PKP1, SERPINB13, EDN2, DSG3, PROM2, IFI6, KRT5, MUC4, DUOXA2, 2, JCHAIN, |
| ep.subcluster\_6 | COL1A2, COL3A1, COL1A1, COL6A3, SFRP4, SPARC, DCN, MMP11, BGN, AEBP1, COL5A1, IGFBP7, PTGDS, IGF1, CCN2, GJA1, FBN1, ACTA2, SPON2, FN1, PDGFRB, C1R, ELF3, TNFSF9 |

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Fig. S2. The *clustree* plot of scTSNN and baseline methods on mammalian cells.

图表

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Fig. S3. The heatmap among real-time and predicted pseudotime on mammalian cells.