**Supplementary Table 6.** Public scRNA-seq datasets for pancreatic ductal adenocarcinoma

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| --- | --- | --- | --- | --- | --- |
| **scRNA-seq** | **Tissue/**  **Cell type** | **Total number of samples** | **Data type** | **Journal/Year** | **Acquire website** |
| GSE197177 | HM &  ADJ | 4 | scRNA-seq | Nature communications  2023 | https://www.ncbi.nlm.nih.gov/geo |
| GSE229413 | HD | 5 | scRNA-seq | Cancer Discovery  2023 | https://www.ncbi.nlm.nih.gov/geo |
| PRJCRA001160 | ADJ &  PDAC | 35 | scRNA-seq | Cell Research  2019 | https://ngdc.cncb.ac.cn/bioproject/browse/PRJCA001063 |
| GSE242230/  syn5241395 | PDAC | 5 | scRNA-seq | npj Precision Oncology  2023 | https://humantumoratlas.org |
| OEP003254 | PDAC | 5 | scRNA-seq | Gut  2022 | https://www.biosino.org/node/project/detail/OEP003254 |

NORM, normal pancreas; PDAC, pancreatic ductal adenocarcinoma; HD, healthy donor; ADJ, adjacent normal; LNN, lymph node-negative; LNP, lymph node-positive; HM, hepatic metastasis.