**Table 2c:** Mouse single-cell data sources used by different DL algorithms

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Title** | **Algorithm** | **Cell origin** | **# Cells** | **Data Sources** | **Reference** |
| **Brain cells from E18 mice** | DCA, SAUCIE | Brain Cortex | 1,306,127 | 10x: Single Cell Gene Expression Datasets |  |
| **Midbrain and Dopaminergic Neuron Development** | SAVER-X | Ventral Midbrain | 1907 | GSE76381 | [81] |
| **Mouse cell atlas** | SAVER-X |  | 405,796 | GSE108097 | [144] |
| **neuron9k** | DeepImpute | Cortex | 9128 | 10x: Single Cell Gene Expression Datasets |  |
| **Mouse Visual Cortex** | DeepImpute | Brain cortex | 114601 | GSE102827 | [145] |
| **murine epidermis** | DeepImpute | Epidermis | 1422 | GSE67602 | [146] |
| **myeloid progenitors** | LATE  DESC, SAUCIE | Bone marrow | 2,730 | GSE72857 | [147] |
| **Cell-cycle** | sclGAN | mESC | 288 | E-MTAB-2805 | [148] |
| **A single-cell survey** |  | Intestine | 7721 | GSE92332 | [126] |
| **Tabula Muris** | iMAP | Mouse cells | >100K |  |  |
| **Baron-Mou-1** | VASC | Pancreas | 822 | GSM2230761 | [132] |
| **Biase** | scGMAI, VASC | Embryos/SMARTer | 56 | GSE57249 | [149] |
| **Biase** | scGMAI, VASC | Embryos/Fluidigm | 90 | GSE59892 | [149] |
| **Deng** | scGMAI, VASC | Liver | 317 | GSE45719 | [150] |
| **Klein** | VASC  scDeepCluster  sclGAN | Stem Cells | 2,717 | GSE65525 | [151] |
| **Goolam** | VASC | Mouse Embryo | 124 | E-METAB-3321 | [152] |
| **Kolodziejczyk** | VASC | mESC | 704 | E-MTAB-2600 | [153] |
| **Usoskin** | VASC | Lumbar | 864 | GSE59739 | [154] |
| **Zeisel** | VASC, scVI, SAUCIE, netAE | Cortex, hippocampus | 3,005 | GSE60361 | [155] |
| **Bladder cells** | scDeepCluster | Bladder | 12,884 | GSE129845 | [156] |
| **HEMATO** | scVI | Blood cell | >10,000 | GSE89754 | [157] |
| **retinal bipolar cells** | scVI, scCapsNet  SAUCIE | retinal | ~25,000 | GSE81905 | [106] |
| **Embryo at 9 time points** | LDAVE | embryos from E6.5 to E8.5 | 116,312 | GSE87038 | [158] |
| **Embryo at 9 time points** | LDAVE | embryos from E9.5 to E13.5 | ~2 millions | GSE119945 | [159] |
| **CyTOF,** | SAUCIE | Mouse thymus | 200K, ~38 antibodies | Cytobank: 52942 | [160] |
| **Solo** | solo | Mouse kidneys | ~8,000 | GSE140262 | [93] |
| **Nestorowa** | netAE | hematopoietic stem and progenitor cells | 1,920 | GSE81682 | [161] |
| **small intestinal epithelium** | scGen | Infected with Salmonella and worm H. polygyrus | 1,957 | GSE92332 | [126] |