

Supplementary Table 1: Information on single-cell RNA-seq datasets from brain, placenta,blood, pancreas and lung tissue

Dataset	Accession	Organ	Tissue	Organism	Technology	No of samples	condition	No of cells(after QC)	No of genes(after QC)	No of cell types
1 Hochgerner1	GSE95315	brain	dentate gyrus	mouse	10X	6	P12, P16, P24, and P35	5,454	14,545	22
2 Hochgerner3	GSE104323	brain	dentate gyrus	mouse	10X	8	19, P23, P120, and P132.	24,140	19,425	24
3 Tasic2018_coarse_ALM_ViSP	GSE115746	brain	ALM_ViSP	mouse	SMART-Seq	2	-	22,110	40,331	4
4 Tasic2018_fine_ALM_ViSP	GSE115746	brain	ALM_ViSP	mouse	SMART-Seq	2	-	22,110	40,331	23
5 Hrvatin2018_ViSP	GSE102827	brain	ViSP	mouse	10X	28	0h , 1h,2h,4h light stimuli	48,266	19,167	16
6 Darmanis2017	GSE84465	brain	tumor core and peritumoral brain tissue	human	Smart-seq2	4	ie IV glioblastoma (tumor)	3,567	20,718	7
7 Fan2020	GSE120046	brain	celebral cortex and pons	human	Smart-seq2	18	ynonic brain weeks 7 to 26	12,447	22,689	11
8 Shekhar2016	GSE81904	brain	retinas	mouse	Drop-Seq	6	-	26,492	19,565	18
9 Zeisel2015	GSE60361	brain	hippocampus CA1	mouse	Fluidigm C1	10	sex-time	1,312	17,664	6
10 Zeisel2015	GSE60361	brain	somatosensory cortex (S1)	mouse	Fluidigm C1	17	sex-time	1,691	17,211	6
11 Allen_human_MCA_SS2	https://portal.brain-map.org/atlas-and-data/maseq	brain	multiple cortical areas	human	Smart-seq2	3	MTG', 'VIC', 'CgG', 'M1Im', 'S1ul', 'S1Im', 'M1ul', 'A1C'	6,328	48,197	14
12 Allen_human_M1_10X	https://portal.brain-map.org/atlas-and-data/maseq	brain	primary motor cortex	human	10X	2	2 human brains	6,276	32,858	14
13 Vento-TormoR_10X_2018	E-MTAB-6701	placenta	-placenta/maternal blood/decidua	human	10X	7		63,629	26,212	29
14 Vento-TormoR_SS2_2018	E-MTAB-6678	placenta	Decidua cells	human	Smart-seq2	5		5,581	30,845	29
15 WilkAJ_2020_coarse	GSE150728	blood/pbmc		human	Seq-Well	14	healthy+covid	38141	26348	7
16 BaronM_Human_2016	GSE84133	pancreas	human pancreatic islets	human	CEL-Seq	4	-	8,569	16,359	13
17 SegerstolpeA_2016	E-MTAB-5061	pancreas	human pancreatic islets	human	Smartseq2	10	-	2127	26167	11
18 TravagliniKJ_Human_10X_2020	EGAS00001004344	lung	chial,bronchus)+ blood (together)	human	10X	7		65,662	20,901	42
19 TravagliniKJ_Human_SS2_2020	EGAS00001004344	lung	chial,bronchus)+ blood (together)	human	Smartseq2	8		9,409	20,901	42