Literature	Journal	Date of publication	Species	Genome	Number of cells	Number of regions	Number of cell types	Tissue	Whether there is batch information (name of the obs, number of batches / none)	Sequencing technology	Multi-omics (Yes / No)	The original data that can be obtained (bam, bed.gz, fragments.tsv.gz, fragments.bed.gz, sorted.bw, bw, RDS.gz, NaN)	The address of the original resource	Cloud storage address for accessibility
A single-cell atlas of chromatin accessibility in the human genome	Cell	2021/11/24	Homo sapiens	hg19	1,323,041	7,500	111	30 adult tissues	'Life stage', 2	sci-ATAC-seq	No	fragments.bed.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE184462; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE165659	https://drive.google.com/file/d/1-SMNl4ytNtvxf8cUfOw7VUVqQ0D1tt8x/view?usp=sharing
Integrated Single-Cell Analysis Maps the Continuous Regulatory Landscape of Human Hematopoietic Differentiation	Cell	2018/5/31	Homo sapiens	hg19	2,034	19,820	13	Bone marrow or blood	'Batch', 7	scATAC-seq	No	bed.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE96769; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE96772	https://drive.google.com/file/d/1Oie5lbJDLTiaVKZVFPlyplxNVnElhezg/view?usp=sharing
cisTopic: cis-regulatory topic modeling on single-cell ATAC-seq data	Nature Methods	2019/4/8	Homo sapiens	hg19	598	24,950	4	Melanoma cell lines	'Batch', 2	Time series scATAC-seq (Fluidigm C1)	No	sorted.bw	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE114557	https://drive.google.com/file/d/1acR9h8w1tYr-1OzVzxfwAwjkZVRHH7tV/view?usp=sharing
Droplet-based combinatorial indexing for massive-scale single-cell chromatin accessibility	Nature Biotechnology	2019/6/24	Homo sapiens	hg19	136,463	4,191	15	Bone marrow	'Batch', 2	dsciATAC-seq	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE123581	https://drive.google.com/file/d/16_JkClYIiiNjHsw48e1nutquDCDRIgDT/view?usp=sharing

Single-nucleus analysis of accessible chromatin in developing mouse forebrain reveals cell-type-specific transcriptional regulation	Nature Neuroscience	2018/2/12	Mus musculus	mm9	2,088	2,000	8	Forebrain	NaN	snATAC-seq	No	bw	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE100033	https://drive.google.com/file/d/1qFtTZdjd-M-XDElyIleOY4oeRo_Vpiat/view?usp=sharing
Multiplex single-cell profiling of chromatin accessibility by combinatorial cellular indexing	Science	2015/5/7	Homo sapiens	mm9	748	1,841	3	NaN	NaN	scATAC-seq	No	NaN	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE68103	https://drive.google.com/file/d/1uLAfXHugUlmjQgOD5ZA5_ZiA3XZEKANZ/view?usp=sharing
Multiplex single-cell profiling of chromatin accessibility by combinatorial cellular indexing	Science	2015/5/7	Homo sapiens	mm9	700	1,235	3	NaN	NaN	scATAC-seq	No	NaN	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE68103	https://drive.google.com/file/d/1JpoaUMUvxH89Zyf2RuNo1-xuqve0q2GU/view?usp=sharing
Single-cell chromatin accessibility reveals principles of regulatory variation	Nature	2015/6/17	Homo sapiens	mm9	1,377	8,713	6	NaN	NaN	scATAC-seq	No	bed.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE65360	https://drive.google.com/file/d/1KcYeMpp9AsAveaQu5IHMJu-8wVknB2TW/view?usp=sharing
Lineage-specific and single-cell chromatin accessibility charts human hematopoiesis and leukemia evolution	Nature Genetics	2016/8/15	Homo sapiens	hg19	576	14,258	6	Blood	NaN	scATAC-seq	Yes	NaN	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE74310	https://drive.google.com/file/d/1sGVaK9HgkTOiUGWWYBF1dN1FAqgrvHid/view?usp=sharing

A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	4,033	8,225	15	Bone marrow	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1ramwS7HaLyejls-bBm3YtzL_Tj3OXfus/view?usp=sharing
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	4,370	7,409	18	Bone marrow	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1vxmmBUEHuynLuKMUNB8O9mrfl-ypsBzL/view?usp=sharing
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	2,278	13,284	20	Cerebellum	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1E8MaIso3w8nQVI-g7LWNfay6RpQtZbx1/view?usp=sharing
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	7,650	18,286	22	Heart	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1_gOfJ-q_pn66lbBU_z1GZfWYsH72SMt6/view?usp=sharing
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	6,431	25,010	26	Kidney	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1Y9WtJK0MR1-Z0I8XQvjom1O_pUYkJJOm/view?usp=sharing
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	2,281	9,254	18	LargeIntestine	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1kv2BD_Bpj_G_TniZDmXvmfr1-ViGMKXz/view?usp=sharing

A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	4,805	10,151	18	LargeIntestine	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1qBsXfGA_7dEioZsiA77SJYQSdLUy40nZ/view?usp=sharing
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	6,167	31,360	17	Liver	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/17o47RSDqrE91YbjMd1iwUSjmQdc_bHBZ/view?usp=sharing
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	4,874	12,435	25	Lung	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1ZAViNVRUgTLrP3z0lNs1twWpSwKAMvGl/view?usp=sharing
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	5,959	42,534	22	PreFrontalCortex	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1Dl6WfLG69BUf6SO_11NyaLM0pSekCq90/view?usp=sharing
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	4,077	1,820	18	SmallIntestine	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/134_Gs3c49db2vBJlm6cF_M7twaFO86ll/view?usp=sharing
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	4,020	23,544	15	Spleen	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/15fJZCq8RAJRd-UOFLVIpINmoD3rAyigu/view?usp=sharing

A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	2,723	8,475	10	Testes	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1G10F9-SLR6fsa3QDgQAC7_ovZ3LvS-Fb/view?usp=sharing
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	7,617	25,504	14	Thymus	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1PHHPdjyzqQ9noT8p_2MQXVudcwGw7Owa/view?usp=drive_link
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	5,494	22,627	21	WholeBrain	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1HNpFjIXPtSQwuGRwMZWHla1DZilitaln/view?usp=drive_link
A single-cell atlas of in vivo mammalian chromatin accessibility	Cell	2018/8/23	Mus musculus	mm9	3,272	26,707	20	WholeBrain	NaN	sci-ATAC-seq	No	bam	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111586; https://atlas.gs.washington.edu/mouse-atac/data/	https://drive.google.com/file/d/1J15bHXvTm3j27AOxgHwMEiqdZW3at6dn/view?usp=sharing
Integrated Single-Cell Analysis Maps the Continuous Regulatory Landscape of Human Hematopoietic Differentiation	Cell	2018/5/31	Homo sapiens	hg19	722	19,473	3	Bone marrow	'Batch', 4	scATAC-seq	No	bed.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE96769; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE96772	https://drive.google.com/file/d/14tBtpr9pkoC_FArsdKsf8M3eAVO7vHb3/view?usp=sharing

Integrated Single-Cell Analysis Maps the Continuous Regulatory Landscape of Human Hematopoietic Differentiation	Cell	2018/5/31	Homo sapiens	hg19	380	14,671	3	Bone marrow	'Batch', 2	scATAC-seq	No	bed.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE96769; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE96772	https://drive.google.com/file/d/1svSnE9zFWAai4HgxeWx7kICO8FRF61bJ/view?usp=sharing
A rapid and robust method for single cell chromatin accessibility profiling	Nature Communications	2018/12/17	Mus musculus	mm10	3,166	46,172	12	Three tissues	NaN	scATAC-seq (plate-based)	No	NaN	https://www.ebi.ac.uk/arrayexpress/experiments/E-MTAB-6714/	https://drive.google.com/file/d/10MhqgcB7WFIYVe3pnSffQaatnkZADBrJ/view?usp=drive_link
Massively parallel single-cell chromatin landscapes of human immune cell development and intratumoral T cell exhaustion	Nature Biotechnology	2019/8/2	Homo sapiens	hg19	63,882	30,780	31	Peripheral blood and bone marrow cells	'Donor_id', 16	scATAC-seq	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE129785	https://drive.google.com/file/d/1ZHnQlwHyIGGBGP2FtN7GBfKv8j_hjXd9/view?usp=sharing
Massively parallel single-cell chromatin landscapes of human immune cell development and intratumoral T cell exhaustion	Nature Biotechnology	2019/8/2	Homo sapiens	hg19	37,818	37,346	20	Tumor microenvironment (TME)	'Patient', 7	scATAC-seq	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE129785	https://drive.google.com/file/d/1IcPApEbb4tWtF6Rk-vTxs3xypGIYnbuF/view?usp=sharing

Online single-cell data integration through projecting heterogeneous datasets into a common cell-embedding space	Nature Communications	2022/10/17	Mus musculus	hg19	13,671	10,066	20	Brain	'Batch', 2	scATAC-seq	No	NaN	use GSE126724（snATAC-seq）and https://support.10xgenomics.com/single-cell-atac/datasets/1.1.0/atac_v1_adult_brain_fresh_5k?（10X）together	https://drive.google.com/file/d/1lbn_mqxhvS5TPC94oh6wLcNorkZSUKhx/view?usp=sharing
ArchR: An integrative and scalable software package for single-cell chromatin accessibility analysis	Nature Genetics	2021/2/25	Homo sapiens	hg19	27,220	11,613	12	Admixed immortalized cell lines	NaN	10x Genomics scATAC-seq (v1)	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE162690	https://drive.google.com/file/d/1XmRjSOUXHwbZT9TG21UfBhyscqiPjfDu/view?usp=sharing
ArchR: An integrative and scalable software package for single-cell chromatin accessibility analysis	Nature Genetics	2021/2/25	Homo sapiens	hg19	16,047	10,540	12	Admixed immortalized cell lines	NaN	10x Genomics scATAC-seq (v1)	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE162690	https://drive.google.com/file/d/1ZIZglKsvD9J2UDv7IdloH5i9s0IPC2rp/view?usp=drive_link
ArchR: An integrative and scalable software package for single-cell chromatin accessibility analysis	Nature Genetics	2021/2/25	Homo sapiens	hg19	11,173	13,456	12	Admixed immortalized cell lines	NaN	10x Genomics scATAC-seq (v1)	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE162690	https://drive.google.com/file/d/1gvjxe5TRqUkRl5jW3cfB1eJJQbvGGbG_/view?usp=sharing
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	720,613	9,746	78	15 oragns	'Batch', 3; 'donor_id', 20	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1dygRNjBXfipE-3NgQPpfUgZKIQ8PI5R9/view?usp=drive_link

A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	63,958	12,672	9	Adrenal	'Batch', 2; 'donor_id', 4	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1ZNWdaD0kK7nDdixvyS7iyekjTjtR-_Q-/view?usp=sharing
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	3,313	9,528	4	Cerebellum	'Batch', 1; 'donor_id', 1	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1Rn_WtnfH2qL8PYWvvRdCYqhcmmUCErpr/view?usp=drive_link
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	85,261	4,215	8	Cerebrum	'Batch', 3; 'donor_id', 3	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1oZOFHjngllGGg2hr5ELadP9kyKjMqn1N/view?usp=drive_link
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	9,712	20,592	8	Eye	'Batch', 2; 'donor_id', 3	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1OdEyHuL4WNsuCyp8aeqv_bat9VR5XBxK/view?usp=sharing
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	79,248	14,780	14	Heart	'Batch', 2; 'donor_id', 5	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/18SxkE275nUFmpTQN-17aFpIfemjLdEgY/view?usp=sharing

A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	42,942	11,294	13	Intestine	'Batch', 2; 'donor_id', 3	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1fw81m1HKcEH91cxVuRGb9qAUaE5NZ5NC/view?usp=drive_link
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	75,490	15,944	9	Kidney	'Batch', 3; 'donor_id', 6	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1tLWCAtxw-lgEHl8xee844iD1osquJpPa/view?usp=sharing
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	183,175	5,782	8	Liver	'Batch', 2; 'donor_id', 7	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/12DBRy4YGYdJZ7Avc-n41FaLz4EqLe7BD/view?usp=sharing
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	72,662	10,957	9	Lung	'Batch', 3; 'donor_id', 6	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1sL0P7lwRqR6hncxJ6nXx9oWtfKITLNIw/view?usp=sharing
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	27,181	14,213	10	Muscle	'Batch', 1; 'donor_id', 2	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/17830dVye4Vu0D5ZCje0ZNgq0WngtA5Vd/view?usp=sharing

A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	4,994	14,587	7	Pancreas	'Batch', 1; 'donor_id', 1	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1rrLCC3-ABf8aBgDR69Mq8E-Ap5vOA7hh/view?usp=sharing
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	45,181	9,521	12	Placenta	'Batch', 2; 'donor_id', 5	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1belHlBMAOt0P6rF60k9OeKbNQMbKQHFE/view?usp=sharing
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	2,157	9,365	4	Spleen	'Batch', 1; 'donor_id', 1	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1WcMb3UkRtYafaOJVMnH0ADDALGC79MVF/view?usp=sharing
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	3,840	18,122	7	Stomach	'Batch', 1; 'donor_id', 2	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1uaUWaz_fEQRKTeqqtlA_4p2-LSJxqebr/view?usp=sharing
A human cell atlas of fetal chromatin accessibility	Science	2020/11/13	Homo sapiens	hg19	21,499	15,310	4	Thymus	'Batch', 3; 'donor_id', 4	sci-ATAC-seq3	No	fragments.tsv.gz	https://descartes.brotmanbaty.org/bbi/human-chromatin-during-development/; https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE149683	https://drive.google.com/file/d/1ni0wUg3PmAfb4XcdtcuLE08BrzPdZs93/view?usp=sharing

Chromatin Potential Identified by Shared Single-Cell Profiling of RNA and Chromatin	Cell	2020/11/12	Mus musculus	mm10	3,293	593	19	Brain	NaN	SHARE-seq	Yes	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE140203	https://drive.google.com/file/d/17oR8do0mJBMVPs_tBx0cG6nIXPdfTIUq/view?usp=sharing
Chromatin Potential Identified by Shared Single-Cell Profiling of RNA and Chromatin	Cell	2020/11/12	Mus musculus	mm10	3,293	6,894	19	Brain	NaN	SHARE-seq	Yes	NaN	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE140203	https://drive.google.com/file/d/191SqUw51GntpqOi0FbghX3yWbKy5ytFi/view?usp=drive_link
Chromatin Potential Identified by Shared Single-Cell Profiling of RNA and Chromatin	Cell	2020/11/12	Mus musculus	mm10	34,774	15,984	23	Skin	NaN	SHARE-seq	Yes	fragments.bed.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE140203	https://drive.google.com/file/d/1n-lBPi5wEF0MApdMCEeuFBKJtZvUsdt6/view?usp=drive_link
Chromatin Potential Identified by Shared Single-Cell Profiling of RNA and Chromatin	Cell	2020/11/12	Mus musculus	mm10	34,774	3,576	23	Skin	NaN	SHARE-seq	Yes	NaN	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE140203	https://drive.google.com/file/d/1n-lBPi5wEF0MApdMCEeuFBKJtZvUsdt6/view?usp=sharing
Deconvolution of single-cell multi-omics layers reveals regulatory heterogeneity	Nature Communications	2019/1/28	Homo sapiens	hg19	549	154,447	5	NaN	'Batch', 4	scCAT-seq	Yes	NaN	https://www.nature.com/articles/s41467-018-08205-7	https://drive.google.com/file/d/1H_j6l-saNbkq79bNRj2Rskmwh16Ux6Oq/view?usp=sharing
Deconvolution of single-cell multi-omics layers reveals regulatory heterogeneity	Nature Communications	2019/1/28	Homo sapiens	hg19	72	66,664	2	NaN	NaN	scCAT-seq	Yes	NaN	https://www.nature.com/articles/s41467-018-08205-7	https://drive.google.com/file/d/1HwtHHS3JpyGo05F0tF6jS80o7GaL9vG-/view?usp=sharing

Deconvolution of single-cell multi-omics layers reveals regulatory heterogeneity	Nature Communications	2019/1/28	Homo sapiens	hg19	72	18,902	2	NaN	NaN	scCAT-seq	Yes	NaN	https://www.nature.com/articles/s41467-018-08205-7	https://drive.google.com/file/d/1OA4Epz2kipRTsJKEtOoSNetrSpmqOUCg/view?usp=sharing
Deconvolution of single-cell multi-omics layers reveals regulatory heterogeneity	Nature Communications	2019/1/28	Homo sapiens	hg19	549	20,003	5	NaN	'Batch', 4	scCAT-seq	Yes	NaN	https://www.nature.com/articles/s41467-018-08205-7	https://drive.google.com/file/d/1Ql7KT4_Odqpx3Cg9RGWQ4sfpmd04mpnK/view?usp=drive_link
Joint profiling of chromatin accessibility and gene expression in thousands of single cells	Science	2018/8/30	Mus musculus	mm10	11,296	198	14	Kidney	NaN	sci-CAR	Yes	NaN	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE117089	https://drive.google.com/file/d/12t_vK1Jk1d12VT0eR2rjFf4NdwBJMYSR/view?usp=sharing
Joint profiling of chromatin accessibility and gene expression in thousands of single cells	Science	2018/8/30	Mus musculus	mm10	11,296	2,750	14	Kidney	NaN	sci-CAR	Yes	NaN	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE117089	https://drive.google.com/file/d/1qZ1WROEYQzpsw2bPG39wbrwRGaoXsOVY/view?usp=sharing
High-throughput sequencing of the transcriptome and chromatin accessibility in the same cell	Nature Biotechnology	2019/10/14	Mus musculus	mm10	9,190	9,511	22	Cortex	NaN	SNARE-seq	Yes	NaN	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE126074	https://drive.google.com/file/d/1rkEoHV14sny_0MtsZLCNO3UVKCjBZOuE/view?usp=sharing

High-throughput sequencing of the transcriptome and chromatin accessibility in the same cell	Nature Biotechnology	2019/10/14	Mus musculus	mm10	9,190	5,047	22	Cortex	NaN	SNARE-seq	Yes	NaN	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE126074	https://drive.google.com/file/d/1b4GBr_eXrDqy7a9dPLGf7SxQF6JUK6Kw/view?usp=sharing
Chromatin Potential Identified by Shared Single-Cell Profiling of RNA and Chromatin	Cell	2020/11/12	Mus musculus	mm10	32,231	3,451	22	Skin	'Batch', 4	SHARE-seq	Yes	fragments.bed.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE140203	https://drive.google.com/file/d/1sfYhQlTCoj6yMLSbYCXkZsZUNsItPUNG/view?usp=sharing
Chromatin Potential Identified by Shared Single-Cell Profiling of RNA and Chromatin	Cell	2020/11/12	Mus musculus	mm10	32,231	15,491	22	Skin	'Batch', 4	SHARE-seq	Yes	NaN	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE140203	https://drive.google.com/file/d/1FSds5tVjS2QY9l-1zhRlfY-LCkbGyTBn/view?usp=sharing
PBMC from a Healthy Donor - Granulocytes Removed Through Cell Sorting (10k)	NaN	2020/9/9	Homo sapiens	hg38	9,631	29,549	19	Peripheral blood mononuclear cell (PBMC)	NaN	10x Multiome	Yes	fragments.tsv.gz	https://www.10xgenomics.com/datasets/pbmc-from-a-healthy-donor-granulocytes-removed-through-cell-sorting-10-k-1-standard-1-0-0	https://drive.google.com/file/d/1ojWmA32c3tj44JX0W0rpAaty2DWqBLTv/view?usp=sharing
PBMC from a Healthy Donor - Granulocytes Removed Through Cell Sorting (10k)	NaN	2020/9/9	Homo sapiens	hg38	9,631	8,568	19	Peripheral blood mononuclear cell (PBMC)	NaN	10x Multiome	Yes	bam	https://www.10xgenomics.com/datasets/pbmc-from-a-healthy-donor-granulocytes-removed-through-cell-sorting-10-k-1-standard-1-0-0	https://drive.google.com/file/d/1RE5Dui2CaeO6Dast5RivyoDRiLs6pMSc/view?usp=sharing

Fresh Cortex from Adult Mouse Brain (P50)	NaN	2019/4/16	Mus musculus	mm9	2,317	80,097	10	Brain, cortex	NaN	10x ATAC	No	fragments.tsv.gz	https://www.10xgenomics.com/datasets/fresh-cortex-from-adult-mouse-brain-p-50-1-standard-1-1-0	https://drive.google.com/file/d/1O5R6AAF_pFkUHwvCm2ERK8aa-aFtTIft/view?usp=drive_link
Single cell transcriptional and chromatin accessibility profiling redefine cellular heterogeneity in the adult human kidney	Nature Communications	2021/4/13	Homo sapiens	hg38	24,205	31,225	13	Kidney	'Batch', 5	snATAC-seq	Yes	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE151302	https://drive.google.com/file/d/1kUFSFk66qhrJLbXugtSnVthP8TP7CrnM/view?usp=sharing
Single cell transcriptional and chromatin accessibility profiling redefine cellular heterogeneity in the adult human kidney	Nature Communications	2021/4/13	Homo sapiens	hg38	19,985	7,988	13	Kidney	'Batch', 5	snRNA-seq	Yes	NaN	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE151302	https://drive.google.com/file/d/11VvR6f0c9GC40WKTIZtrSeyLZyEbd6tV/view?usp=drive_link
A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex	Nature	2021/10/6	Mus musculus	mm10	54,844	12,797	11	Primary motor cortex (Mop)	'Batch', 9	snATAC-seq	Yes	NaN	https://assets.nemoarchive.org/dat-ch1nqb7	https://drive.google.com/file/d/1Y7W06ii2k0AN2WLY_VvaaTE4-0fOMC4U/view?usp=sharing
A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex	Nature	2021/10/6	Mus musculus	mm10	69,727	13,564	11	Primary motor cortex (Mop)	'Seq-batch', 3	scRNA 10x v3 A	Yes	NaN	https://assets.nemoarchive.org/dat-ch1nqb7	https://drive.google.com/file/d/189d8eBfOujlLkVBCzFJhczGPu9di3y84/view?usp=sharing

A human cell atlas of fetal gene expression	Science	2020/11/13	Homo sapiens	hg38	4,062,980	3,636	77	121 tissues	'Batch', 2; 'experiment_batch', 7	sci-RNA-seq3	Yes	NaN	https://descartes.brotmanbaty.org/bbi/human-gene-expression-during-development/	https://drive.google.com/file/d/19YI9WtDCuV3FJ5gSkyGZzch4FNZTfkza/view?usp=sharing
Droplet-based combinatorial indexing for massive-scale single-cell chromatin accessibility	Nature Biotechnology	2019/6/24	Homo sapiens	hg19	136,463	4,191	15	Bone marrow	'Batch', 2	dscATAC-seq	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE123581	https://drive.google.com/file/d/15xIl2iF7UtlC0wjIXK9ecEstmlChvgXC/view?usp=sharing
Droplet-based combinatorial indexing for massive-scale single-cell chromatin accessibility	Nature Biotechnology	2019/6/24	Homo sapiens	hg38	5,310	18,572	6	Blood	NaN	dscATAC-seq	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE123578	https://drive.google.com/file/d/1At0A6HEY5fbsqb02_JKrTncWLZMR2oUh/view?usp=sharing
Droplet-based combinatorial indexing for massive-scale single-cell chromatin accessibility	Nature Biotechnology	2019/6/24	Homo sapiens	hg38	4,999	18,774	6	Blood	NaN	dscATAC-seq	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE123578	https://drive.google.com/file/d/1uCNRzQaQMECI1Psk2HQ3AXQY1CE3LjP-/view?usp=drive_link
Droplet-based combinatorial indexing for massive-scale single-cell chromatin accessibility	Nature Biotechnology	2019/6/24	Homo sapiens	hg38	4,536	22,687	6	Blood	NaN	dscATAC-seq	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE123578	https://drive.google.com/file/d/1ygqsSAn1vM4tGwDB4mDE37qKFiuJZg8m/view?usp=sharing

Droplet-based combinatorial indexing for massive-scale single-cell chromatin accessibility	Nature Biotechnology	2019/6/24	Homo sapiens	hg38	4,983	31,530	6	Blood	NaN	dscATAC-seq	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE123578	https://drive.google.com/file/d/1K0R-4eeNZ1AIzjc_0FDyDBLcFf-9rP7w/view?usp=sharing
Droplet-based combinatorial indexing for massive-scale single-cell chromatin accessibility	Nature Biotechnology	2019/6/24	Homo sapiens	hg38	2,436	29,969	6	Blood	NaN	dscATAC-seq	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE123578	https://drive.google.com/file/d/1znpECIWI-fMv9xqZBLL0v4IdBQQR3frX/view?usp=sharing
Droplet-based combinatorial indexing for massive-scale single-cell chromatin accessibility	Nature Biotechnology	2019/6/24	Homo sapiens	hg38	3,981	20,746	6	Blood	NaN	dscATAC-seq	No	fragments.tsv.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE123578	https://drive.google.com/file/d/1bx6PabY6QQFLPvP-tf_GLMp6HR_XwMm7/view?usp=drive_link
A comprehensive platform for analyzing longitudinal multi-omics data	Nature Communications	2023/3/27	Homo sapiens	hg38	1036	472464	3	Blood	NaN	scATAC-seq	No	RDS.gz	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE190992	https://drive.google.com/file/d/1buGjs8QRfqXUAPA5Xt2tjGv7t3o_tDcq/view?usp=sharing