

Supplementary file 3: Test datasets

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Dataset	Number of columns	Data type	HTML Report	Data source
HSMM_single_cell	271	scRNASeq	https://cola-rh.github.io/HSMM_single_cell/ (https://cola-rh.github.io/HSMM_single_cell/)	https://bioconductor.org/packages/HSMMSingleCell/ (https://bioconductor.org/packages/HSMMSingleCell/)
PBMC	2638	scRNASeq	https://cola-rh.github.io/PBMC/ (https://cola-rh.github.io/PBMC/)	https://satijalab.org/seurat/articles/pbmc3k_tutorial.html (https://satijalab.org/seurat/articles/pbmc3k_tutorial.html)
GSE90496	2801	450K methylation array	https://cola-rh.github.io/GSE90496/ (https://cola-rh.github.io/GSE90496/)	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE90496 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE90496)
Golub_leukemia	72	Microarray, gene expression	https://cola-rh.github.io/Golub_leukemia/ (https://cola-rh.github.io/Golub_leukemia/)	https://bioconductor.org/packages/golubEsets/ (https://bioconductor.org/packages/golubEsets/)
Ritz_ALL	128	Microarray, gene expression	https://cola-rh.github.io/Ritz_ALL/ (https://cola-rh.github.io/Ritz_ALL/)	https://bioconductor.org/packages/ALL/ (https://bioconductor.org/packages/ALL/)
TCGA_GBM_microarray	173	Microarray, gene expression	https://cola-rh.github.io/TCGA_GBM_microarray/ (https://cola-rh.github.io/TCGA_GBM_microarray/)	https://gdc.cancer.gov/about-data/publications/gbm_exp (https://gdc.cancer.gov/about-data/publications/gbm_exp)
BaronPancreas_mouse	1886	scRNASeq	https://cola-rh.github.io/BaronPancreas_mouse/ (https://cola-rh.github.io/BaronPancreas_mouse/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
BuettnerESC	288	scRNASeq	https://cola-rh.github.io/BuettnerESC/ (https://cola-rh.github.io/BuettnerESC/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
DarmanisBrain	466	scRNASeq	https://cola-rh.github.io/DarmanisBrain/ (https://cola-rh.github.io/DarmanisBrain/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
GrunHSC	1915	scRNASeq	https://cola-rh.github.io/GrunHSC/ (https://cola-rh.github.io/GrunHSC/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
GrunPancreas	1728	scRNASeq	https://cola-rh.github.io/GrunPancreas/ (https://cola-rh.github.io/GrunPancreas/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
KolodziejczykESC	704	scRNASeq	https://cola-rh.github.io/KolodziejczykESC/ (https://cola-rh.github.io/KolodziejczykESC/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
LaMannoBrain_human_es	1715	scRNASeq	https://cola-rh.github.io/LaMannoBrain_human_es/ (https://cola-rh.github.io/LaMannoBrain_human_es/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
LaMannoBrain_human_embryo	1977	scRNASeq	https://cola-rh.github.io/LaMannoBrain_human_embryo/ (https://cola-rh.github.io/LaMannoBrain_human_embryo/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
LaMannoBrain_human_ips	337	scRNASeq	https://cola-rh.github.io/LaMannoBrain_human_ips/ (https://cola-rh.github.io/LaMannoBrain_human_ips/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
LaMannoBrain_mouse_adult	243	scRNASeq	https://cola-rh.github.io/LaMannoBrain_mouse_adult/ (https://cola-rh.github.io/LaMannoBrain_mouse_adult/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
LaMannoBrain_mouse_embryo	1907	scRNASeq	https://cola-rh.github.io/LaMannoBrain_mouse_embryo/ (https://cola-rh.github.io/LaMannoBrain_mouse_embryo/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
LawlorPancreas	638	scRNASeq	https://cola-rh.github.io/LawlorPancreas/ (https://cola-rh.github.io/LawlorPancreas/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
LengESC	460	scRNASeq	https://cola-rh.github.io/LengESC/ (https://cola-rh.github.io/LengESC/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
ReprocessedTh2	96	scRNASeq	https://cola-rh.github.io/ReprocessedTh2/ (https://cola-rh.github.io/ReprocessedTh2/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)

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MessmerESC	1344	scRNASeq	https://cola-rh.github.io/MessmerESC/ (https://cola-rh.github.io/MessmerESC/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
MuraroPancreas	3072	scRNASeq	https://cola-rh.github.io/MuraroPancreas/ (https://cola-rh.github.io/MuraroPancreas/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
NestorowaHSC	1920	scRNASeq	https://cola-rh.github.io/NestorowaHSC/ (https://cola-rh.github.io/NestorowaHSC/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
PollenGlia	367	scRNASeq	https://cola-rh.github.io/PollenGlia/ (https://cola-rh.github.io/PollenGlia/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
RichardTCell	572	scRNASeq	https://cola-rh.github.io/RichardTCell/ (https://cola-rh.github.io/RichardTCell/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
RomanovBrain	2881	scRNASeq	https://cola-rh.github.io/RomanovBrain/ (https://cola-rh.github.io/RomanovBrain/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
SegerstolpePancreas	3514	scRNASeq	https://cola-rh.github.io/SegerstolpePancreas/ (https://cola-rh.github.io/SegerstolpePancreas/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
UsoskinBrain	864	scRNASeq	https://cola-rh.github.io/UsoskinBrain/ (https://cola-rh.github.io/UsoskinBrain/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
TasicBrain	1809	scRNASeq	https://cola-rh.github.io/TasicBrain/ (https://cola-rh.github.io/TasicBrain/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
ReprocessedAllen	379	scRNASeq	https://cola-rh.github.io/ReprocessedAllen/ (https://cola-rh.github.io/ReprocessedAllen/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
XinPancreas	1600	scRNASeq	https://cola-rh.github.io/XinPancreas/ (https://cola-rh.github.io/XinPancreas/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
ZeiselBrain	3005	scRNASeq	https://cola-rh.github.io/ZeiselBrain/ (https://cola-rh.github.io/ZeiselBrain/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
Fluidigm	65	scRNASeq	https://cola-rh.github.io/Fluidigm/ (https://cola-rh.github.io/Fluidigm/)	https://bioconductor.org/packages/scRNAseq/ (https://bioconductor.org/packages/scRNAseq/)
TCGA_ACC_methylation	80	450K methylation array	https://cola-rh.github.io/TCGA_ACC_methylation/ (https://cola-rh.github.io/TCGA_ACC_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_BLCA_methylation	434	450K methylation array	https://cola-rh.github.io/TCGA_BLCA_methylation/ (https://cola-rh.github.io/TCGA_BLCA_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_BRCA_methylation	888	450K methylation array	https://cola-rh.github.io/TCGA_BRCA_methylation/ (https://cola-rh.github.io/TCGA_BRCA_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_CESC_methylation	312	450K methylation array	https://cola-rh.github.io/TCGA_CESC_methylation/ (https://cola-rh.github.io/TCGA_CESC_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_COAD_methylation	337	450K methylation array	https://cola-rh.github.io/TCGA_COAD_methylation/ (https://cola-rh.github.io/TCGA_COAD_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_COADREAD_methylation	443	450K methylation array	https://cola-rh.github.io/TCGA_COADREAD_methylation/ (https://cola-rh.github.io/TCGA_COADREAD_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_ESCA_methylation	202	450K methylation array	https://cola-rh.github.io/TCGA_ESCA_methylation/ (https://cola-rh.github.io/TCGA_ESCA_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_GBM_methylation	155	450K methylation array	https://cola-rh.github.io/TCGA_GBM_methylation/ (https://cola-rh.github.io/TCGA_GBM_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)

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TCGA_GBMLGG_methylation	685	450K methylation array	https://cola-rh.github.io/TCGA_GBMLGG_methylation/ (https://cola-rh.github.io/TCGA_GBMLGG_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_HNSC_methylation	580	450K methylation array	https://cola-rh.github.io/TCGA_HNSC_methylation/ (https://cola-rh.github.io/TCGA_HNSC_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_KICH_methylation	66	450K methylation array	https://cola-rh.github.io/TCGA_KICH_methylation/ (https://cola-rh.github.io/TCGA_KICH_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_KIRC_methylation	480	450K methylation array	https://cola-rh.github.io/TCGA_KIRC_methylation/ (https://cola-rh.github.io/TCGA_KIRC_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_KIRP_methylation	321	450K methylation array	https://cola-rh.github.io/TCGA_KIRP_methylation/ (https://cola-rh.github.io/TCGA_KIRP_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_LAML_methylation	194	450K methylation array	https://cola-rh.github.io/TCGA_LAML_methylation/ (https://cola-rh.github.io/TCGA_LAML_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_LGG_methylation	530	450K methylation array	https://cola-rh.github.io/TCGA_LGG_methylation/ (https://cola-rh.github.io/TCGA_LGG_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_LIHC_methylation	429	450K methylation array	https://cola-rh.github.io/TCGA_LIHC_methylation/ (https://cola-rh.github.io/TCGA_LIHC_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_LUAD_methylation	492	450K methylation array	https://cola-rh.github.io/TCGA_LUAD_methylation/ (https://cola-rh.github.io/TCGA_LUAD_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_LUNG_methylation	907	450K methylation array	https://cola-rh.github.io/TCGA_LUNG_methylation/ (https://cola-rh.github.io/TCGA_LUNG_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_LUSC_methylation	415	450K methylation array	https://cola-rh.github.io/TCGA_LUSC_methylation/ (https://cola-rh.github.io/TCGA_LUSC_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_MESO_methylation	87	450K methylation array	https://cola-rh.github.io/TCGA_MESO_methylation/ (https://cola-rh.github.io/TCGA_MESO_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_PAAD_methylation	195	450K methylation array	https://cola-rh.github.io/TCGA_PAAD_methylation/ (https://cola-rh.github.io/TCGA_PAAD_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_PCPG_methylation	187	450K methylation array	https://cola-rh.github.io/TCGA_PCPG_methylation/ (https://cola-rh.github.io/TCGA_PCPG_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_PRAD_methylation	549	450K methylation array	https://cola-rh.github.io/TCGA_PRAD_methylation/ (https://cola-rh.github.io/TCGA_PRAD_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_READ_methylation	106	450K methylation array	https://cola-rh.github.io/TCGA_READ_methylation/ (https://cola-rh.github.io/TCGA_READ_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)

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TCGA_SARC_methylation	269	450K methylation array	https://cola-rh.github.io/TCGA_SARC_methylation/ (https://cola-rh.github.io/TCGA_SARC_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_SKCM_methylation	476	450K methylation array	https://cola-rh.github.io/TCGA_SKCM_methylation/ (https://cola-rh.github.io/TCGA_SKCM_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_STAD_methylation	398	450K methylation array	https://cola-rh.github.io/TCGA_STAD_methylation/ (https://cola-rh.github.io/TCGA_STAD_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_TGCT_methylation	156	450K methylation array	https://cola-rh.github.io/TCGA_TGCT_methylation/ (https://cola-rh.github.io/TCGA_TGCT_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_THCA_methylation	571	450K methylation array	https://cola-rh.github.io/TCGA_THCA_methylation/ (https://cola-rh.github.io/TCGA_THCA_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_THYM_methylation	126	450K methylation array	https://cola-rh.github.io/TCGA_THYM_methylation/ (https://cola-rh.github.io/TCGA_THYM_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_UCEC_methylation	478	450K methylation array	https://cola-rh.github.io/TCGA_UCEC_methylation/ (https://cola-rh.github.io/TCGA_UCEC_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_UCS_methylation	57	450K methylation array	https://cola-rh.github.io/TCGA_UCS_methylation/ (https://cola-rh.github.io/TCGA_UCS_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)
TCGA_UVM_methylation	80	450K methylation array	https://cola-rh.github.io/TCGA_UVM_methylation/ (https://cola-rh.github.io/TCGA_UVM_methylation/)	https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443 (https://xenabrowser.net/datapages/?hub=https://tcga.xenahubs.net:443)