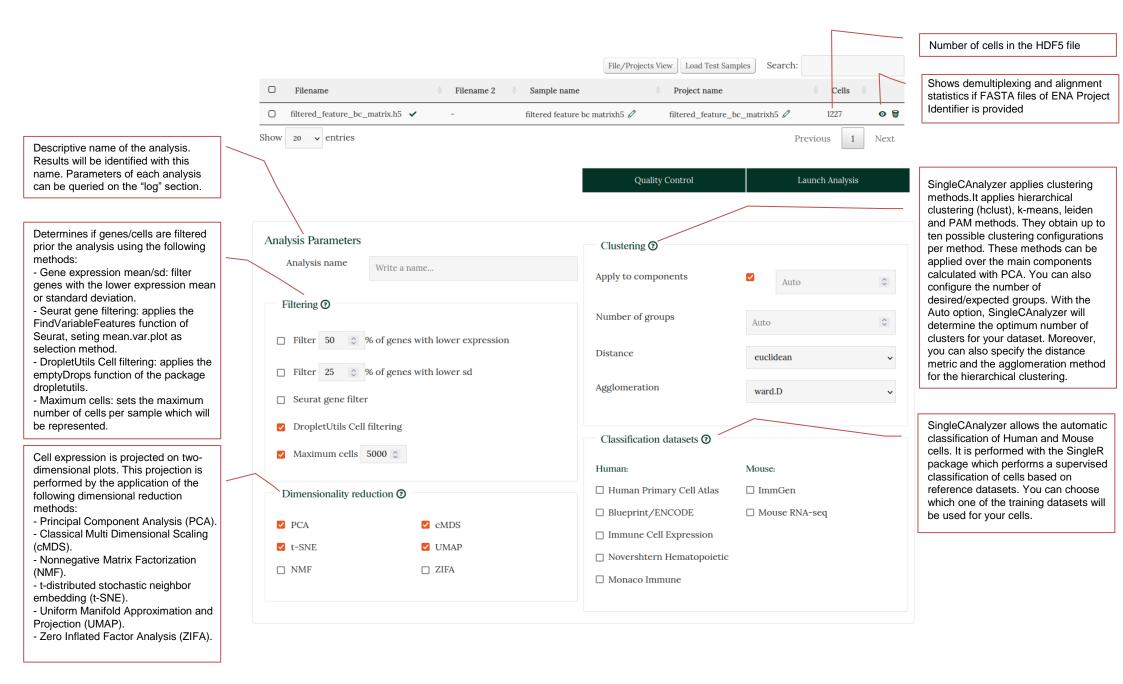
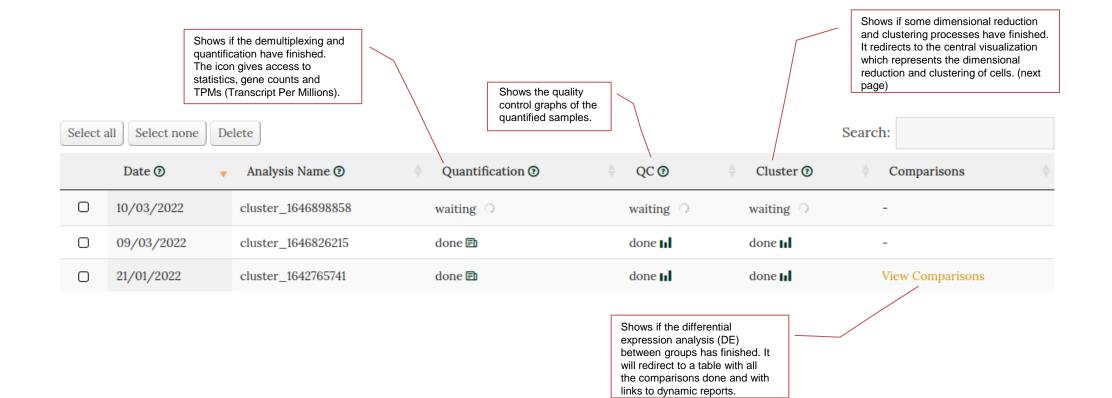
Step 1: Upload files

Files will be demultiplexed/quantified against the specified genome assembly.	Project name that could help to organize and identify your files		Sample name to quantify all files as the same sample						
Upload New Files Sample type Reference genome assembly ⁽²⁾ 	Project name ③		Sample name ③						
Human, Homo sapiens (GRCh38)	filtered_feature_bc_matri	xh5	Write a sample name						
 File type FASTQ FASTQ Select the file format of files. FASTQ and HDF5 files are allowed. Alternatively, ENA project ID can be also specified on the "Import ENA project" menu. HDF5 Advanced ✓ 2) Select your FASTQ or HDF5 Files ⑦ Select or drag and drop one or more files (we provide the second second	 I0x Chromium v3 Drop-seq Den dem proc of or mole quart 	ess by which FASTQ rea rigin based on the sequel ecular barcode. This proc ntification of gene expres	tware. Demultiplexing is the ads are assigned to their cell nce of their corresponding cess will result in the	ple name to quantify all files as same sample					
Browse No files selected.									
Upload FASTQ or HDF5 files clicking on the 'browse' button and selecting the desired files or doing a 'drag and drop' of your files on the square									

Step 2: Set Analysis parameters and launch analysis



Step 3: Explore Results



Dimensional Reduction/Clustering Results

Groups selected by the user. They can be added automatically by clicking on a star of the clusters or cell classification results. A manual modification is also possible adding or removing groups with "My Groups" controls or changing the cell group with the use of "Add to..." and "Remove from groups" buttons.

Generates new scatter plots which represent the expression of two genes in each cell

Colors each point with a scale color which represents the expression of the selected gene.

Points can be selected, or color and shape attributes can be changed based on clustering results. Ten possible clustering results were calculated with kmeans. PAM and hclust methods and can be explored clicking on the number.

Points can be selected, or color and shape attributes can be changed based on the cell population prediction performed by SingleR



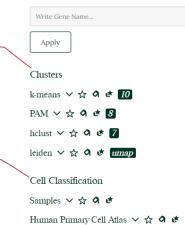
My Groups 🕂 🗮 🝳 🏕

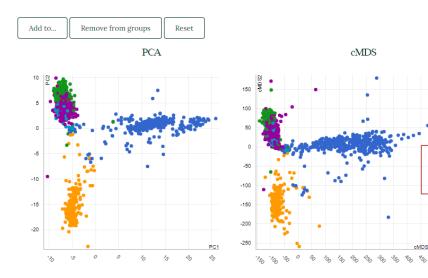
- B cells (199)
- Monocytes (432)
- NK cells (161)
- T cells, CD4+ (347)
- T cells, CD8+ (88)

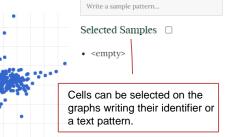
New Gene Expression Plot



Color by Gene Expression







cMDS1

Locate Samples

Write a sample..

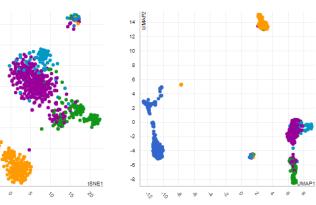
t-SNE

20

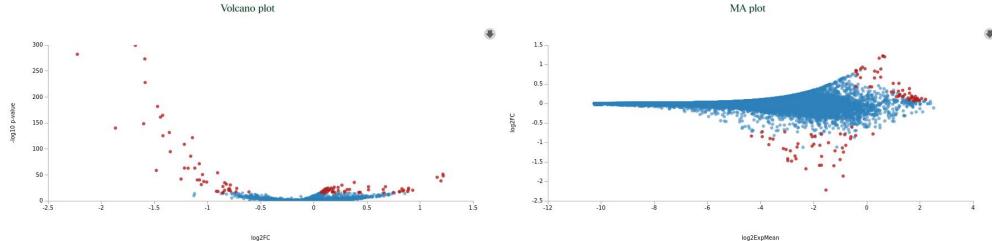
15

10

8 15 10 UMAP



Differential Expression Results



log2FC

685 significant genes of 16290

Select all Select none Show 100 v entries Search:

	ID 💿	🔷 Symbol 🕥	🕴 ExpMean 🕥	Exp k-means_6 🕥	Exp k-means_1,k- means_2,k-means_3,k- means_4,k-means_5 ⑦	log2FC 🕥	🕴 lfcSE 🕥	🕴 Stat 🕖	p-value 🕐	🔹 padj 🕑 🔶
Ø	ENSG00000134539.16	KLRD1	0.205	2.429	0.072	-1.677	0.076	-37.021	5.3e-300	8.6e-296
Ø	ENSG00000115523.16	GNLY	0.345	4.207	0.115	-2.223	0.143	-35.942	6.8e-283	5.5e-279
ø	ENSG00000180644.7	PRF1	0.29	2.488	0.16	-1.589	0.079	-35.367	5.5e-274	3.0e-270
Ø	ENSG00000077984.5	CST7	0.306	2.524	0.174	-1.586	0.079	-32.271	1.8e-228	7.2e-225
ø	ENSG00000137441.7	FGFBP2	0.128	1.839	0.026	-1.469	0.086	-28.807	1.8e-182	5.8e-179
Ø	ENSG00000159674.11	SPON2	0.158	1.833	0.058	-1.421	0.087	-27.407	2.3e-165	6.2e-162
ø	ENSG00000172543.7	CTSW	0.499	2.713	0.367	-1.441	0.094	-27.114	6.7e-162	1.6e-158
Ø	ENSG00000145649.7	GZMA	0.424	2.874	0.278	-1.6	0.11	-26.017	3.2e-149	6.5e-146
ิต	ENSG00000105374.9	NKG7	0.54	3.885	0.341	-1.865	0.153	-25.265	7.8e-141	1.4e-137
	Ensembl Gene Identifier of each gene	Official G Symbol c each gen	of mean of	e expression e in the first	Mean expression in the first group samples	log2 scaled fold change of each gene	Stand error the lo scaled chang	of calc g2 the d fold ana	culated by p-va selected lysis	adjusted Adjuste alue p-value

Functional Analysis Results

GO Pr	ocess	~								
Select	all Select none She	ow 10 v entries							Search:	
	GO_ID ⑦	GO_TERM 🕑	Category 🕑	NumDEInCat 🕐	NumDEAnot ()	DEPercent 🕐	NumInCat 🕑	NumGenesAnot 🕐	♦ AnotPercent ⑦	🗧 p-value 🕐 🔺
0	GO:0006614	SRP-dependent cotranslational protein targeting to membrane	Process	78	655	11.908	89	12490	0.713	1.7e-80
Ο	GO:0006413	translational initiation	Process	91	655	13.893	131	12490	1.049	1.2e-78
	GO:0000184	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay	Process	81	655	12.366	116	12490	0.929	9.1e-70
	GO:0006412	translation	Process	81	655	12.366	171	12490	1.369	2.3e-52
	GO:0002181	cytoplasmic translation	Process	38	655	5.802	50	12490	0.4	4.1e-35
	GO:0043312	neutrophil degranulation	Process	89	655	13.588	432	12490	3.459	1.3e-28
	GO:0006955	immune response	Process	63	655	9.618	273	12490	2.186	1.2e-24
D	GO:0050776	regulation of immune response	Process	35	655	5.344	124	12490	0.993	1.7e-16
	GO:0060333	interferon-gamma- mediated signaling pathway	Process	22	655	3.359	62	12490	0.496	2.1e-13
Ο	GO:0019221	cytokine-mediated signaling pathway	Process	35	655	5.344	200	12490	1.601	2.2e-10
Сору	CSV Excel Gene Ontology identifier	Gene Ontology term	Type of term in the Gene Ontology	N ^a of DE genes annotated to each term	Genes annotated to GO terms	Percentag e of DEGs annotated	Number of genes annotated to each GO term	Previous 1 Number of genes annotated to Gene Ontology	2 3 4 5 Percentag e of genes annotated to each term	. 118 Next P-value of a possible functional enrichmen t