

- Go to <https://aibio.shinyapps.io/maGENEgerZ/>
- Upload the dataset from Datasets folder within Supplementary Materials. Suppose we upload Dataset1 named "GSE130787". Then, we have the following.

The screenshot displays the maGENEgerZ web application interface. The browser address bar shows the URL <https://aibio.shinyapps.io/maGENEgerZ/>. The main heading reads: "maGENEgerZ: An Efficient AI-Based Framework Can Extract More Expressed Genes and Biological Insights Underlying Breast Cancer Drug Response Mechanism".

Step 1: Uploading CSV file: Note that columns correspond to genes and rows to samples. An "Upload..." button is present, and a message "GSE130787" is displayed above an "Upload complete" button.

Step 2: Computational Method

The "esvm" method is selected, indicated by a blue radio button. A "Download" button is visible below the selection.

A diagram illustrates the progression of breast cancer: "Cancer cells (small tumor)" → "Cancer cells (medium tumor)" → "Cancer cells (large tumor)" → "Cancer cells (metastasizing)" → "Cancer cells (apoptosis)". The diagram shows a breast cross-section with a tumor growing and then a human figure with a tumor and a red ribbon symbol.

A progress bar at the bottom right indicates "esvm Calculation in progress This may take a while..."

By default, esvm is selected and a progress bar showing the computation status.

After completion, we click on download button to download the results, shown as in the following screen.

maGENEgerZ: An Efficient AI-Based Genes and Biological Insights Under Mechanism

Step 1: Uploading CSV file: Note that columns correspond to genes and rows to samples

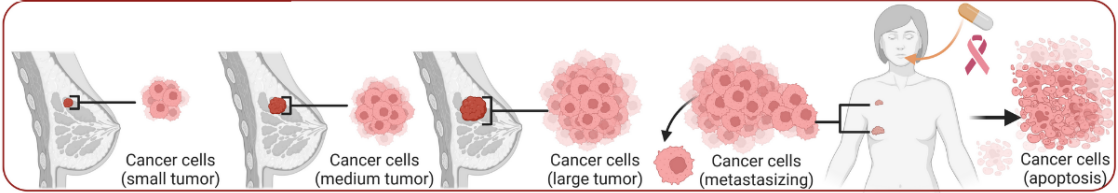
Upload... GSE130787

Upload complete





Step 2: Computational Method


☒ esvm

Download








-Now, we open the results in excel file shown as follows




AutoSave Off    














esvm_genes.csv • Saved to this PC 

FileHomeInsertPage LayoutFormulasDataReviewViewAutomate





Paste


Calibri11A[^]A_v

B*I*U
Font




Alignment

R1C1



SV2B

	1	2	3	4	5	6	7	8	9
1	SV2B								
2	NELL2								
3	PNMT								
4	GRP								
5	CAPN13								
6	MATN3								
7	HMGCS2								
8	MAN1C1								
9	DUSP13								
10	FOS								
11	CYTL1								
12	INSM1								
13	GLI3								
14	OBP2A								
15	CCL21								
16	AQP3								
17	PTP4A3								
18	APLN								
19	ANGPTL7								
20	TRIM63								
21	TMEM61								
22	HSD17B2								
23	CD70								
24	KCNS3								
25	LBH								
26	CHI3L2								
27	LGALS2								
28	PPBP								



esvm_genes

