

Tutorial for EasyPubPlot

Volcano Plot

Step 1: Prepare the Input Data

Prepare the input data file with 5 column names (“**Features**”, “**FoldChange**”, “**log2FoldChange**”, “**P_value**”, “**adj.P.Val**”)

	A	B	C	D	E	F
1	Features	FoldChange	log2FoldChange	P_value	adj.P.Val	
2	Feature_1		-0.22764		0.36784	
3	Feature_2		0.081665		0.81759	
4	Feature_3		-1.3846		0.21195	
5	Feature_4		0.13877		0.83978	
6	Feature_5		-0.47932		0.0014746	
7	Feature_6		-0.32521		0.10422	
8	Feature_7		0.73063		0.49762	
9	Feature_8		0.1632		0.63576	
10	Feature_9		-0.30856		0.82832	
11	Feature_10		0.067657		0.83038	
12	Feature_11		-0.046787		0.84036	
13	Feature_12		-0.047438		0.86746	
14	Feature_13		-0.29625		0.13483	
15	Feature_14		-0.14851		0.65422	
16	Feature_15		-0.028662		0.9328	
17	Feature_16		-0.11592		0.81981	
18	Feature_17		0.074202		0.90524	
19	Feature_18		0.020309		0.97057	
20	Feature_19		-0.042558		0.93443	
21	Feature_20		0.099095		0.8842	

Note:

- The input data were statistical output from e.g., MetaboAnalyst and DESeq2.
- If a column's information were not available, just left it empty (e.g., FOLDCHANGE and P_VALUE).

Step 2: Upload the Data

2. Select subtab “Data Upload”, then upload the input data.

PUBOMICSVISU INTRODUCTION SCORE PLOT **VOLCANO PLOT** HEATMAP BOX PLOT RAINCLOUD PLOT VENN DIAGRAM UPSET PLOT

Data Upload

Cut-offs Colors

Points and Legends Axis Labels Axis Limits

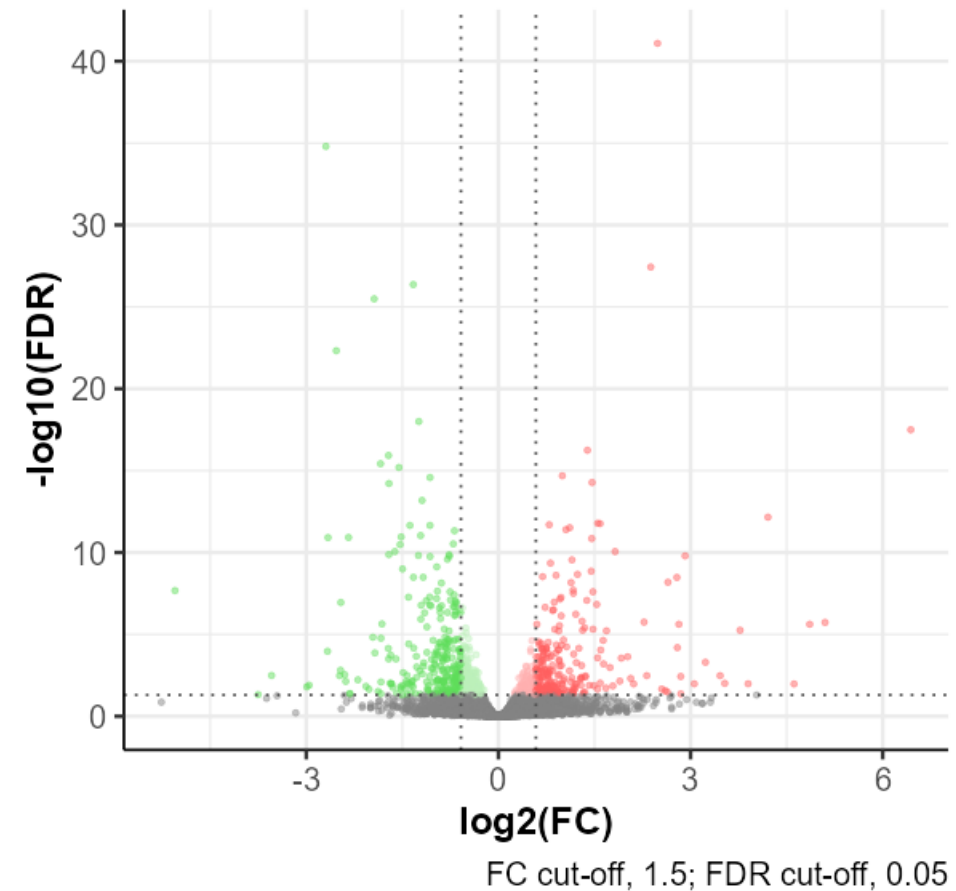
Axis Breaks Save Plot

Upload STAT Result File:

BROWSE...

Input_Volcano.csv

Upload complete



Step 3: Modify the Volcano Plot

1. Select subtab “Cut-offs” to modify the cut-offs, caption and caption size.

[Data Upload](#) [Cut-offs](#) [Colors](#)

[Points and Legends](#) [Axis Labels](#) [Axis Limits](#)

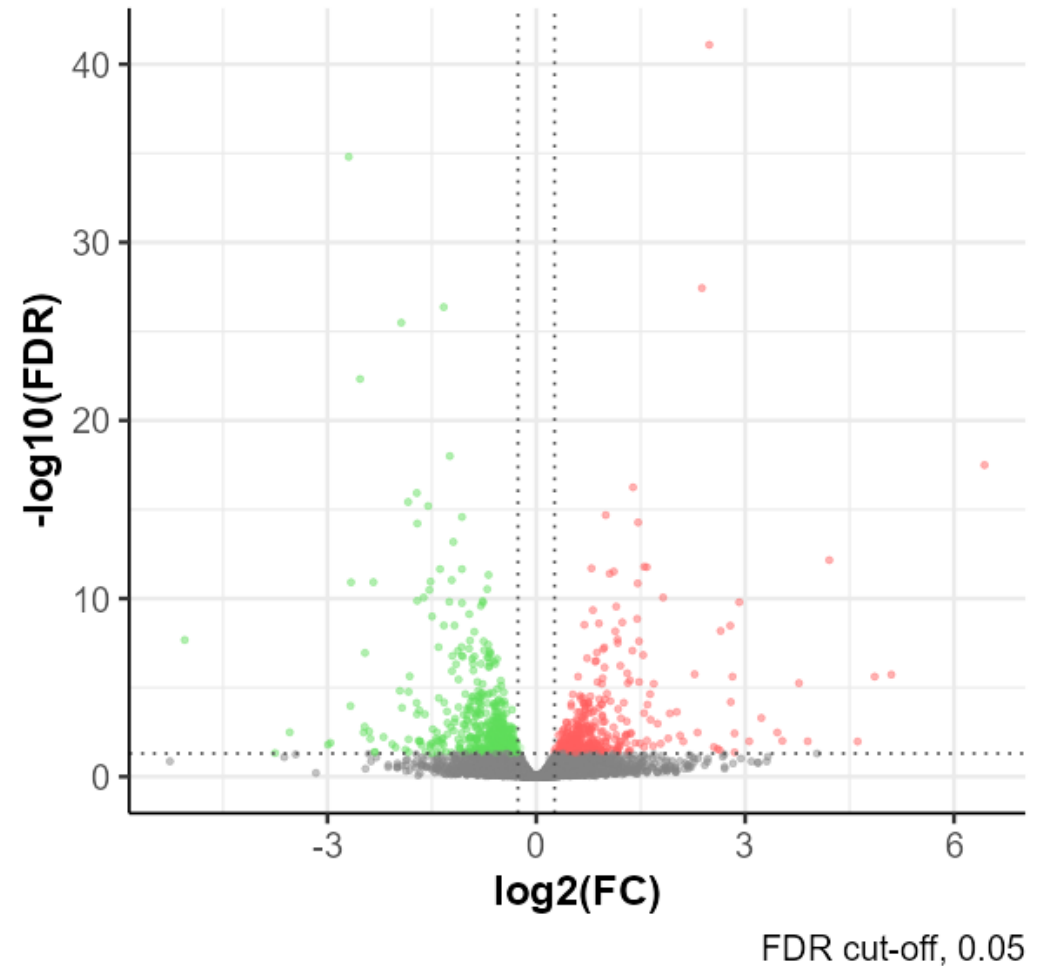
[Axis Breaks](#) [Save Plot](#)

(adj) P-value Cut-off:

Fold Change Cut-off:

Caption:

Caption Size:



Step 3: Modify the Volcano Plot

2. Select subtab “Colors” to select the appropriate colors for features.

[Data Upload](#)[Cut-offs](#)**[Colors](#)**[Points and Legends](#)[Axis Labels](#)[Axis Limits](#)[Axis Breaks](#)[Save Plot](#)

Not Significant Color:

#848484

(adj) P-value, Down-regulation Color:

#2448D6

(adj) P-value, Up-regulation:

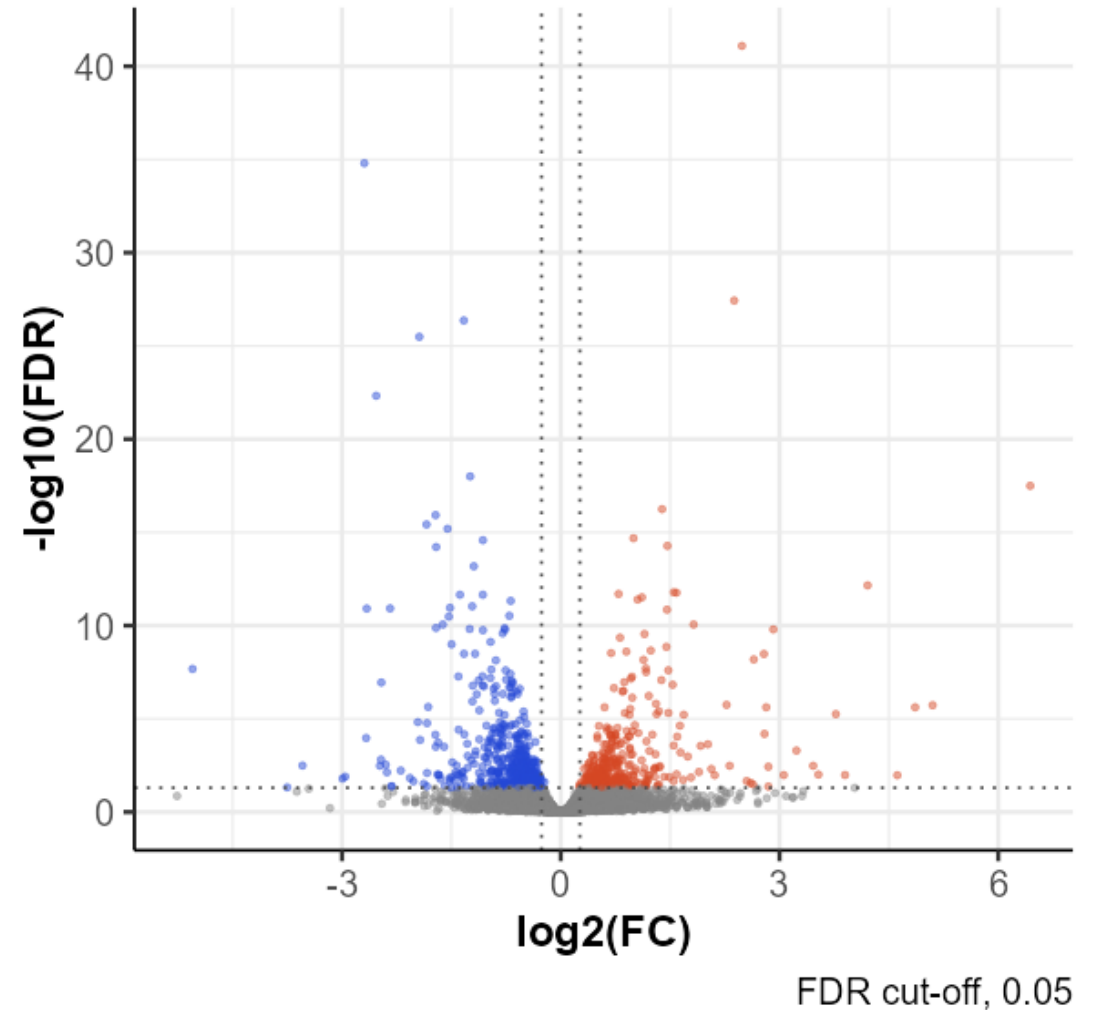
#D64824

(adj) P-value & FC, Down-regulation):

#2448D6

(adj) P-value & FC, Up-regulation):

#D64824

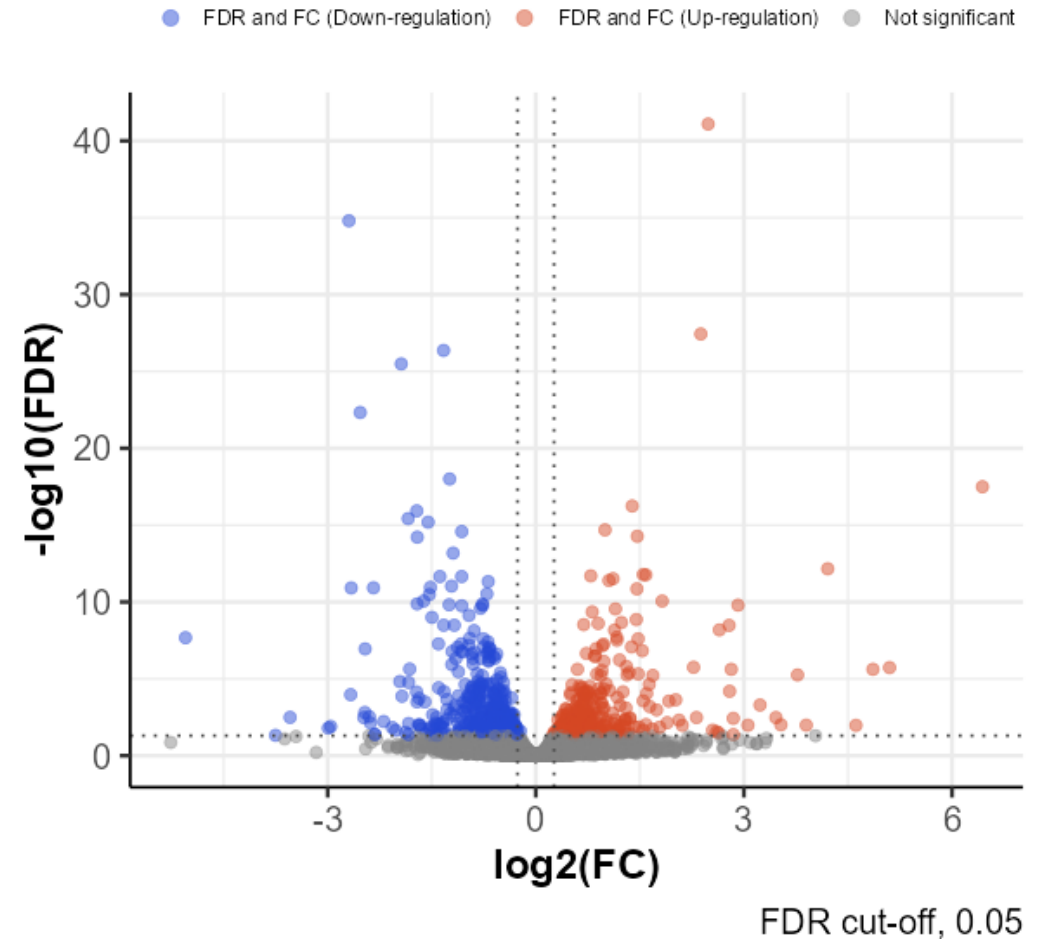


Step 3: Modify the Volcano Plot

3. Select subtab “Point and Legend” to modify the size of points and display legend.

Configuration panel for the Volcano Plot:

- Subtabs: Data Upload, Cut-offs, Colors, **Points and Legends** (selected), Axis Labels, Axis Limits, Axis Breaks, Save Plot.
- Point Size: 3
- ☒ Show legend
- Legend Title Size: 12
- Legend Icon Size: 4
- Plot Theme: none



Step 3: Modify the Volcano Plot

4. Select subtab “Axis Labels” to modify the axis labels and font sizes.

[Data Upload](#)[Cut-offs](#)[Colors](#)[Points and Legends](#)[Axis Labels](#)[Axis Limits](#)

[Axis Breaks](#)[Save Plot](#)

X-axis Label:

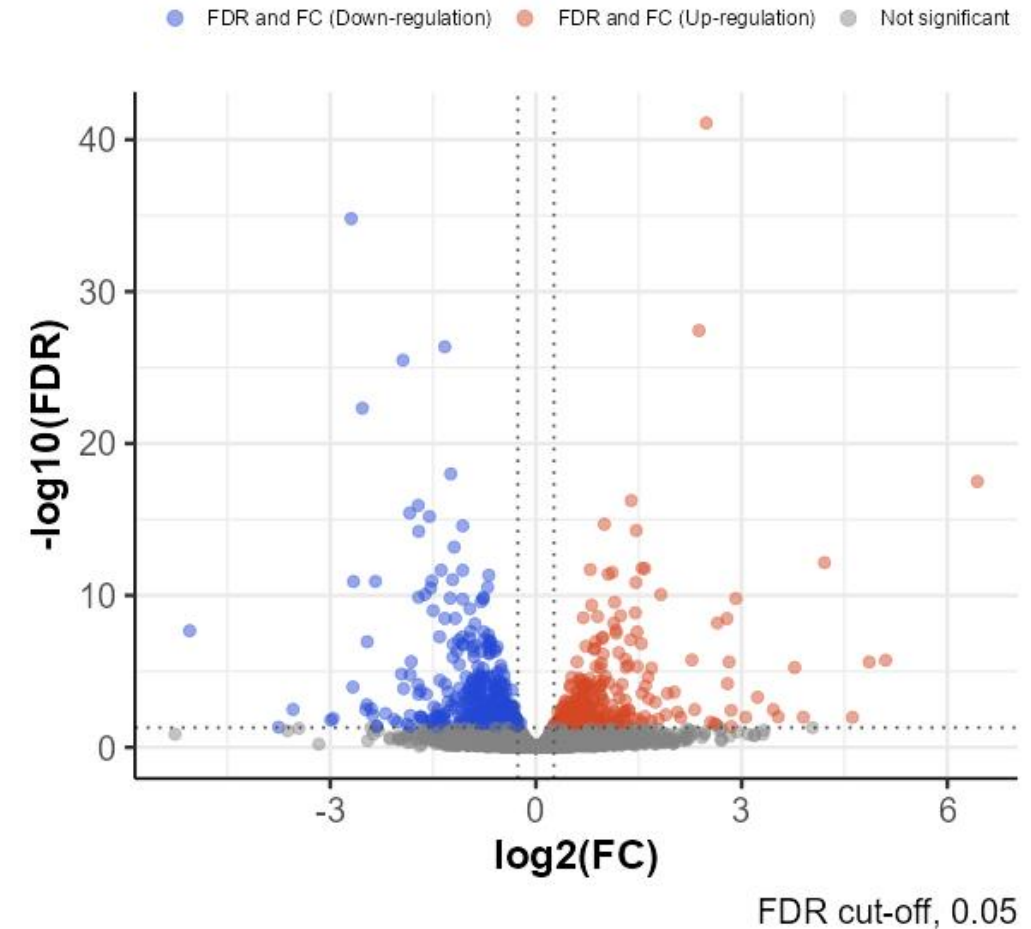
Y-axis Label:

Axis Label Size:

☒ Axis bold

Tick Label Size:

☐ Tick bold



Step 3: Modify the Volcano Plot

5. Select subtab “Axis Limits” to change the axis limits

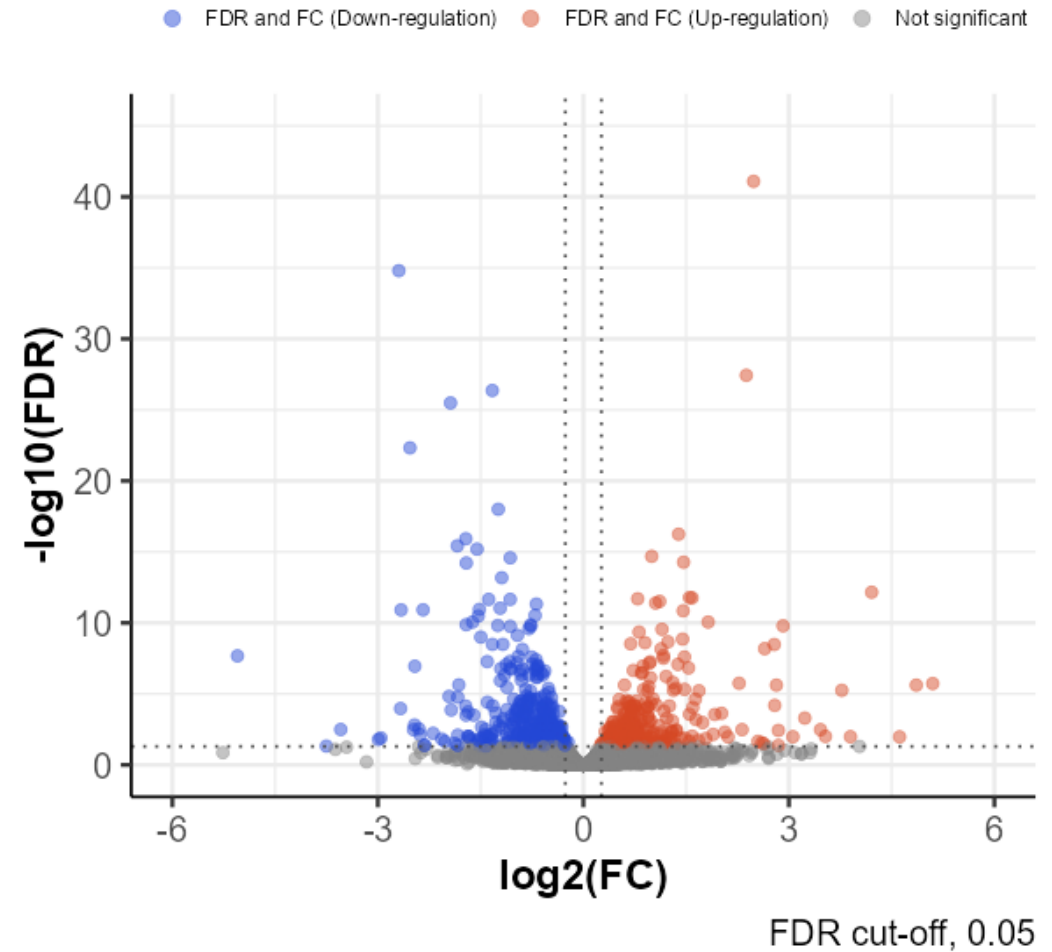
[Data Upload](#)[Cut-offs](#)[Colors](#)[Points and Legends](#)[Axis Labels](#)[Axis Limits](#)[Axis Breaks](#)[Save Plot](#)

X-axis Minimum:

X-axis Maximum:

Y-axis Minimum:

Y-axis Maximum:

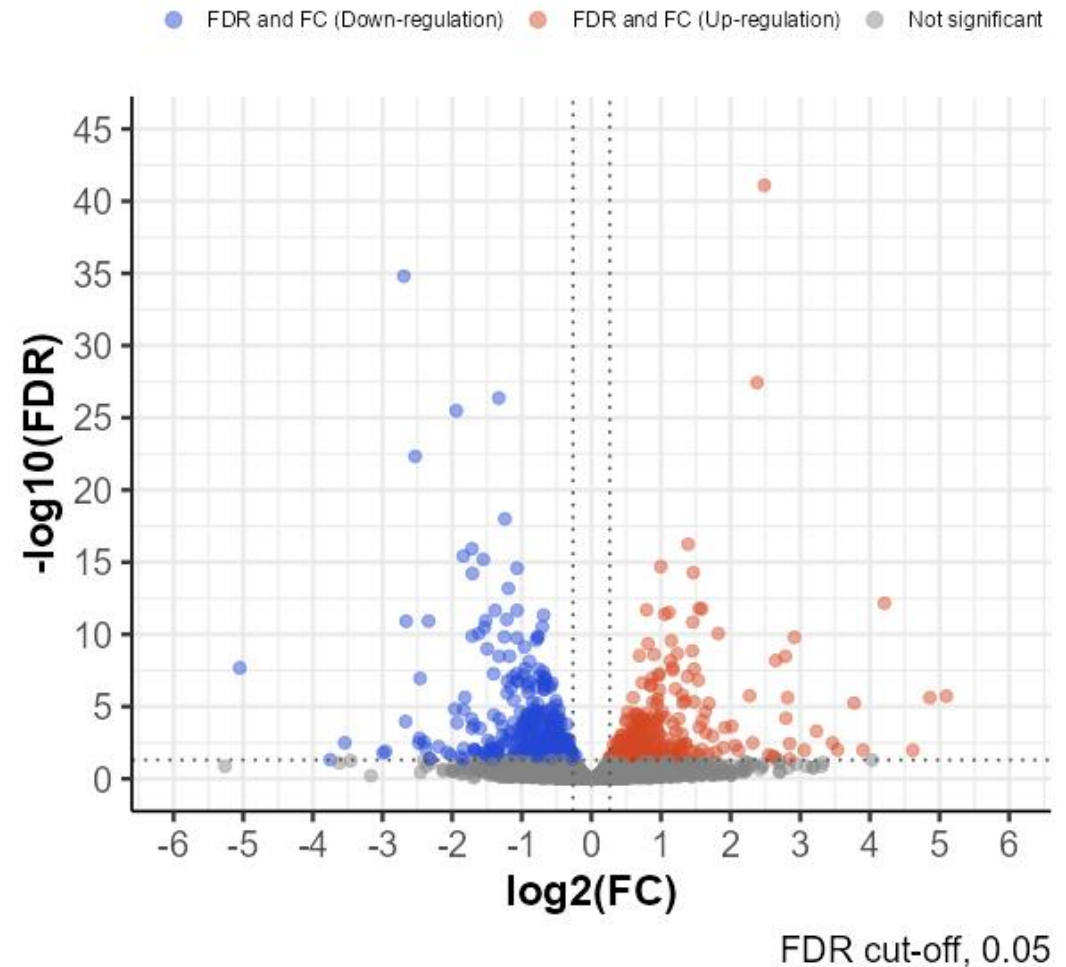


Step 3: Modify the Volcano Plot

6. Select subtab “Axis break” to change the break for each axis.

Interface for modifying the Volcano Plot:

- Subtabs: Data Upload, Cut-offs, Colors, Points and Legends, Axis Labels, Axis Limits, **Axis Breaks** (highlighted), Save Plot.
- X-axis Breaks: 1
- Y-axis Breaks: 5



Step 4: Export the Volcano Plot

1. Select subtab “Save Plot”
2. Select the appropriate size and resolution for the figure.

[Data Upload](#)[Cut-offs](#)[Colors](#)[Points and Legends](#)[Axis Labels](#)[Axis Limits](#)[Axis Breaks](#)[Save Plot](#)

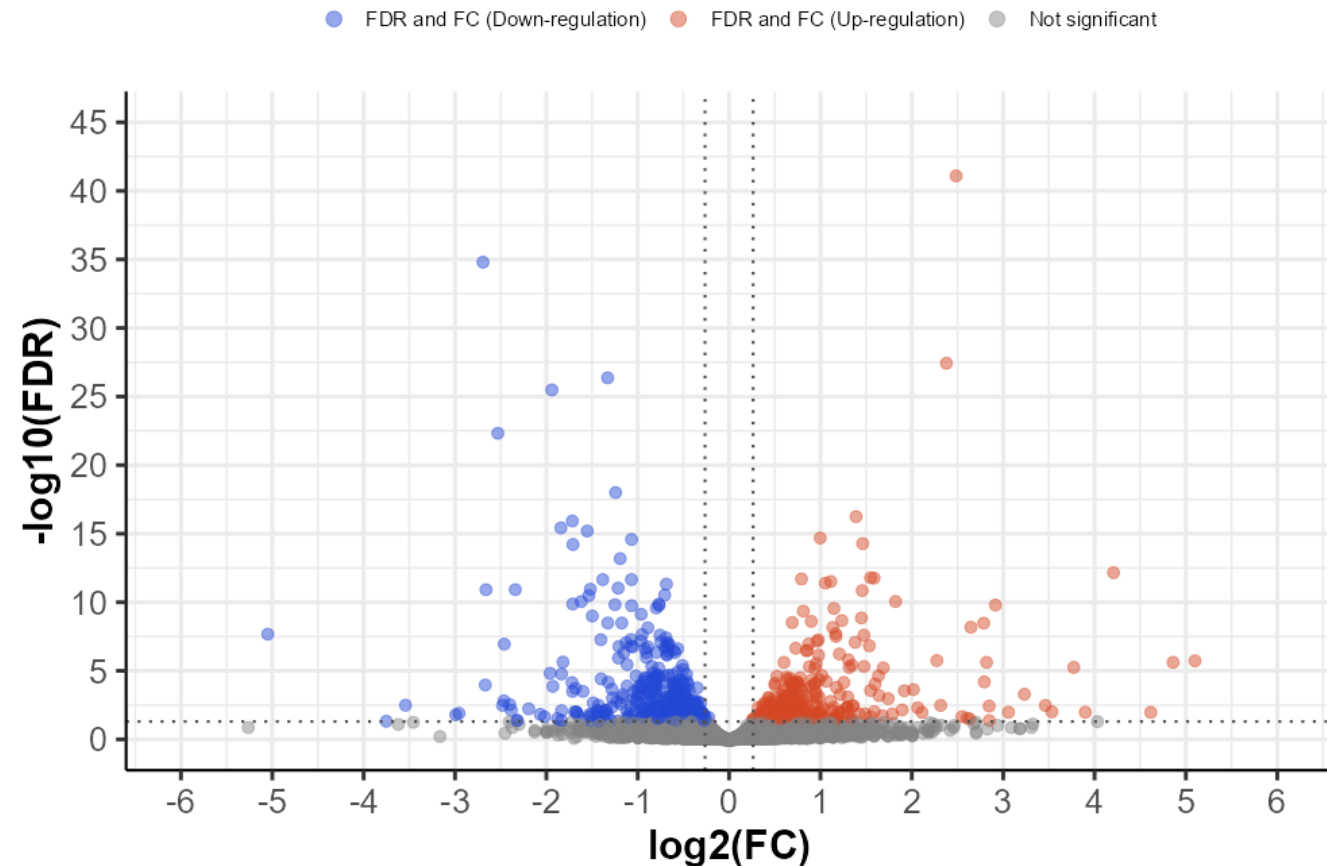
Plot Width (in pixels):

Plot Height (in pixels):

DPI for Saving:

Format:

[Download Plot](#)



Note: Figure should be exported at 300 dpi or higher.

Step 4: Export the Volcano Plot

3. Select figure format volcano plot figure (.png, .tiff, .pdf, .svg).
4. Select subtab “Download Plot” to export the figure.

[Data Upload](#)[Cut-offs](#)[Colors](#)[Points and Legends](#)[Axis Labels](#)[Axis Limits](#)[Axis Breaks](#)[Save Plot](#)

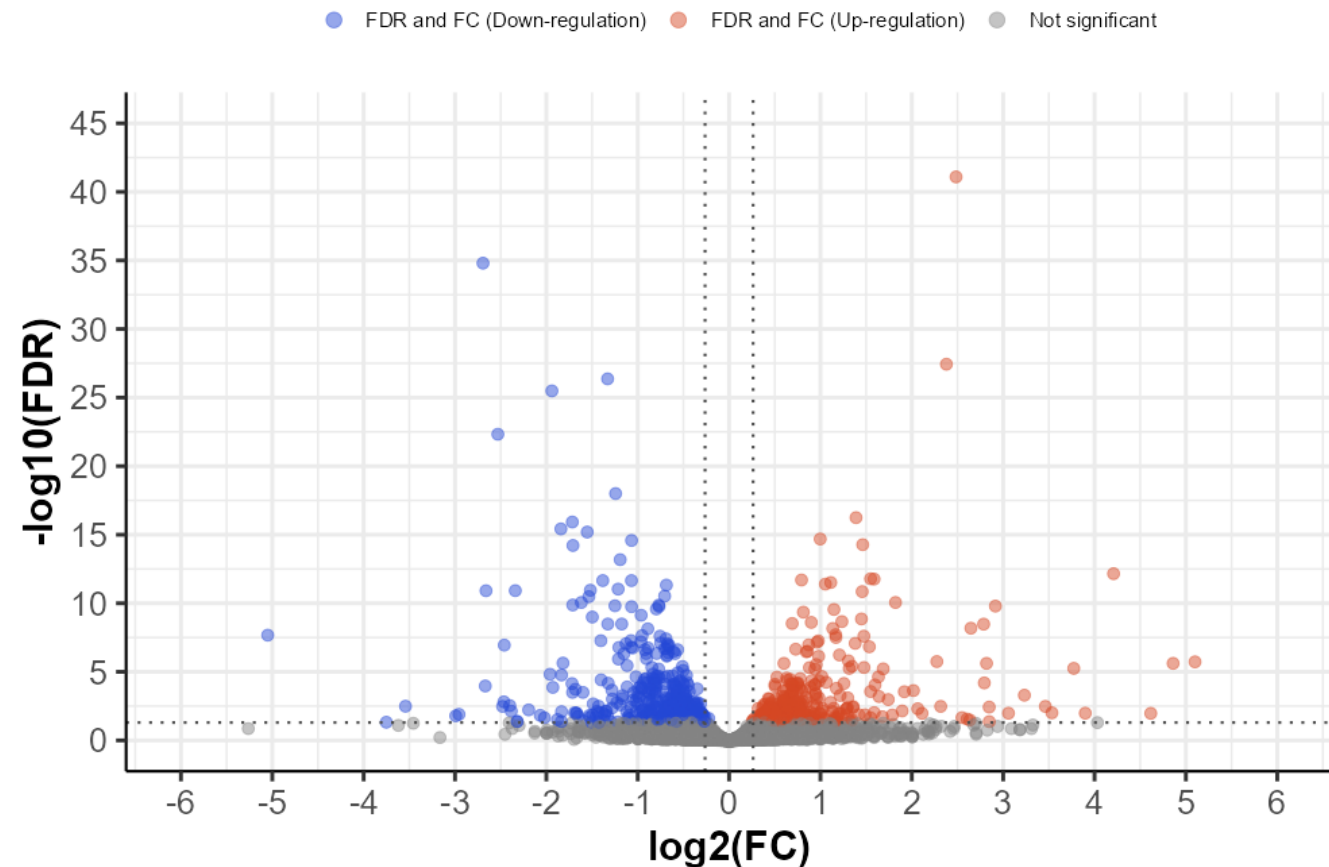
Plot Width (in pixels):

Plot Height (in pixels):

DPI for Saving:

Format:

[Download Plot](#)



Note: The .svg file could be converted to Powerpoint Objects and manually e