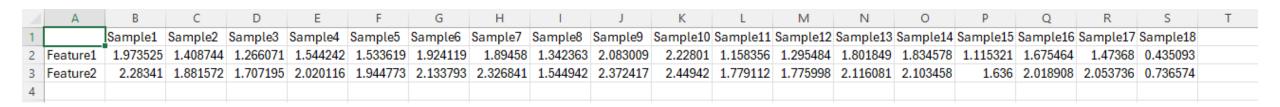# Tutorial for EasyPubPlot

Box Plot

Step 1: Prepare the Input Data

1. Prepare the input data file with columns of sample names and rows of feature names.

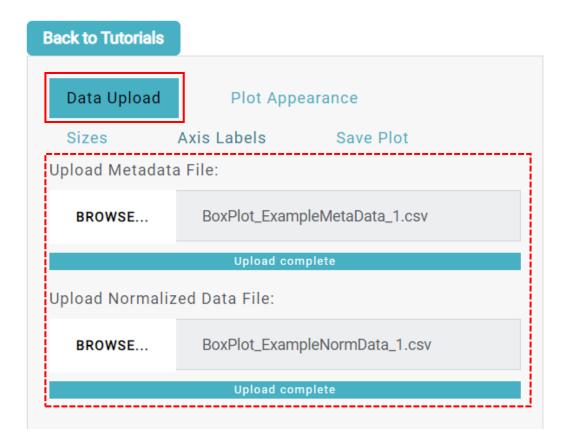|	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1		Sample1	Sample2	Sample3	Sample4	Sample5	Sample6	Sample7	Sample8	Sample9	Sample10	Sample11	Sample12	Sample13	Sample14	Sample15	Sample16	Sample17	Sample18	
2	Feature1	1.973525	1.408744	1.266071	1.544242	1.533619	1.924119	1.89458	1.342363	2.083009	2.22801	1.158356	1.295484	1.801849	1.834578	1.115321	1.675464	1.47368	0.435093	
3	Feature2	2.28341	1.881572	1.707195	2.020116	1.944773	2.133793	2.326841	1.544942	2.372417	2.44942	1.779112	1.775998	2.116081	2.103458	1.636	2.018908	2.053736	0.736574	
4																				

Step 1: Prepare the Input Data

2. Prepare the metadata file with two columns (**"Sample"** and **"Group"**).

	A	B	C
1	Sample	Group	
2	Sample1	Group1	
3	Sample2	Group1	
4	Sample3	Group1	
5	Sample4	Group1	
6	Sample5	Group1	
7	Sample6	Group1	
8	Sample7	Group1	
9	Sample8	Group1	
10	Sample9	Group1	
11	Sample10	Group1	
12	Sample11	Group2	
13	Sample12	Group2	
14	Sample13	Group2	
15	Sample14	Group2	
16	Sample15	Group2	
17	Sample16	Group2	
18	Sample17	Group2	
19	Sample18	Group2	
20			

Step 2: Upload the Data

1. Select tab "Box Plot".

2. Select subtab "Data Upload".

3. Upload the metadata file and normalized data file.

Step 3: Modify the Box Plot
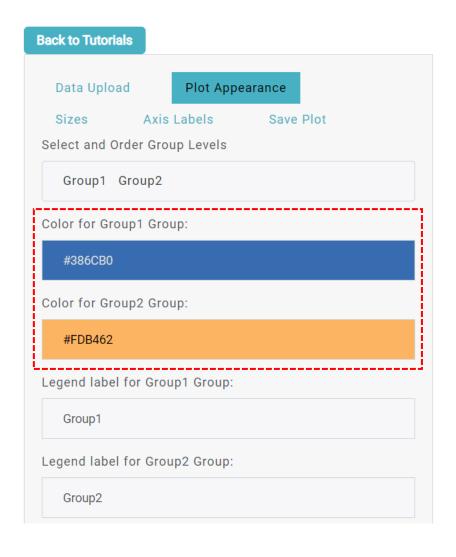
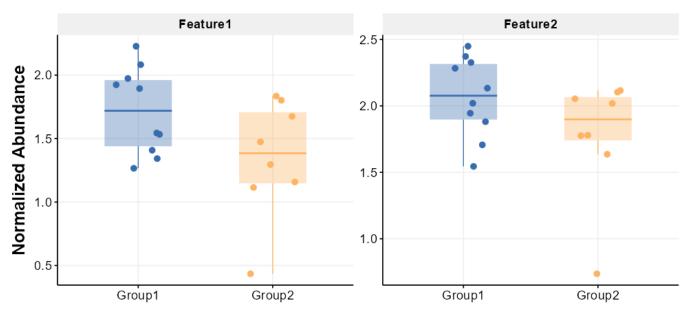Select options "Select and Order Group Level" to select/delete groups or modify the group order.

Step 3: Modify the Box Plot
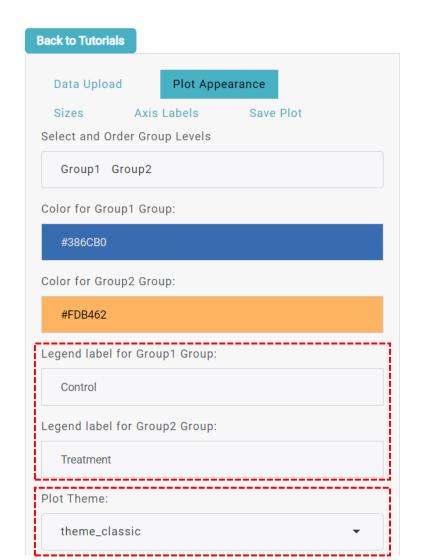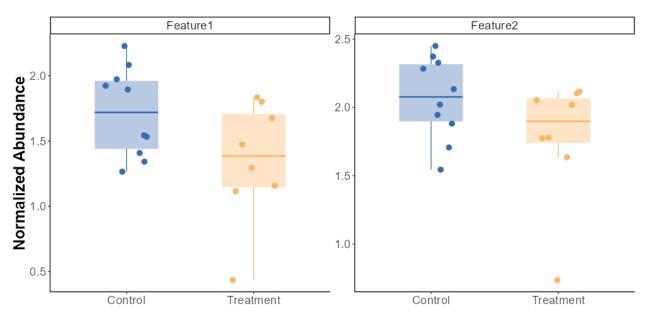
1.Select options "Select and Order Group Level" to select/delete groups or modify the group order.

Step 3: Modify the Box Plot

1. Select options "Color for Group" to modify the appropriate color for each group.

Step 3: Modify the Box Plot

➢ Modify the legend label for each group.

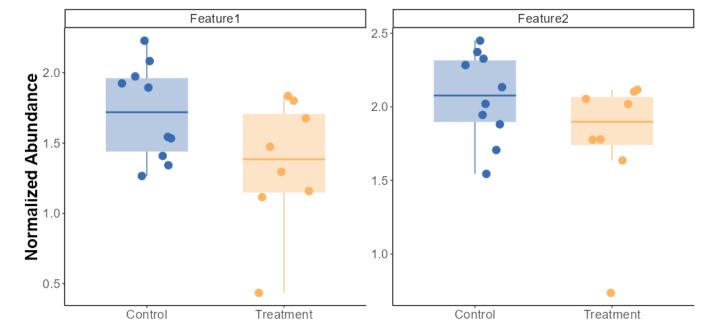➢ Select the approriate theme using "Plot Theme" option.

Step 3: Modify the Box Plot

2. Select subtab "Sizes".

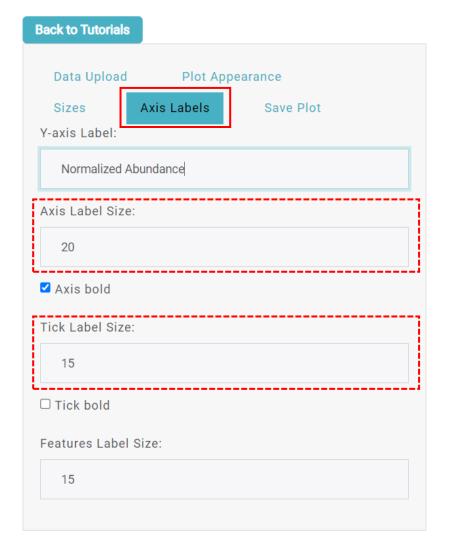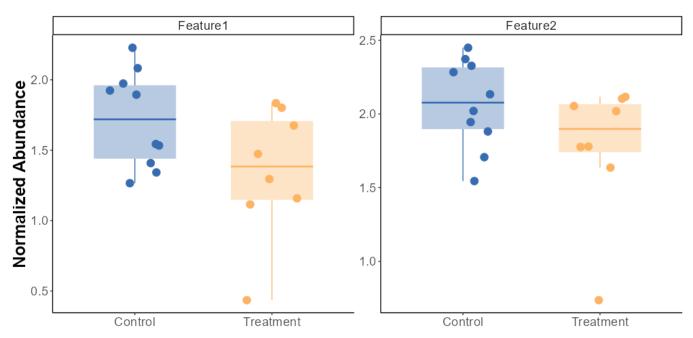> ➢ Select "Point Sizes", "Box Width", "Jitter Width" to modify the sizes of points, boxes, jitters, respectively.

Step 3: Modify the Box Plot

3. Select subtab "Axis Labels".

> ➤ Select option "Y-axis Label" to modify the legend of Y-axis.
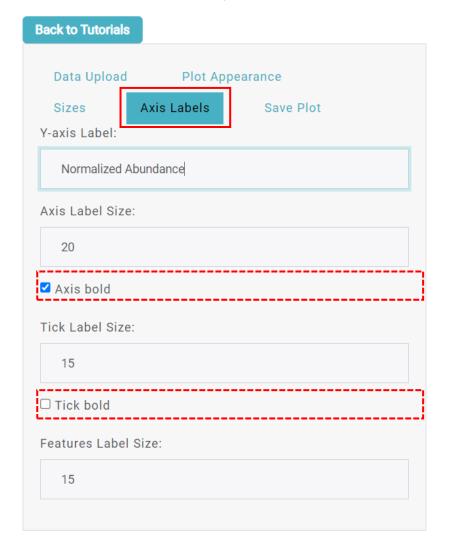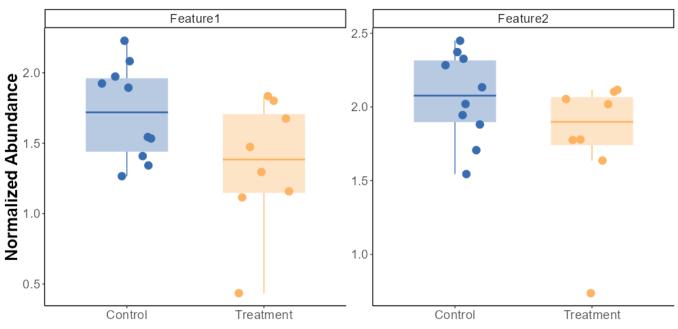
Step 3: Modify the Box Plot

3. Select subtab "Axis Labels".

> Select options "Axis Label Size", "Tick Label Size", "Features Label Size" to modify the label sizes of Y-axis, ticks and feature names, respectively.

Step 3: Modify the Box Plot

3. Select subtab "Axis Labels".

> Select or remove select options "Axis Bold", "Tick Bold" to bold/unbold the Y-axis legends and ticks, respectively.
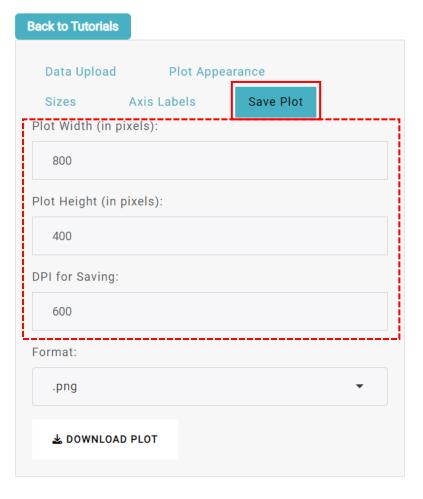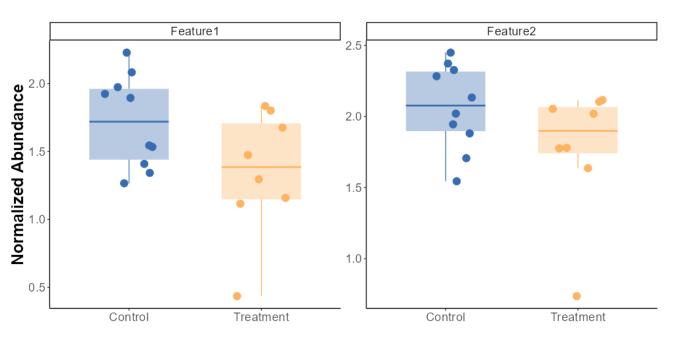

Note: The default setting of Axis Label Size is bold and for the Tick Label Size is not bold.

Step 4: Export the Box Plot

1. Select subtab "Save Plot"

2. Select the approriate sizes (**Plot Width** and **Plot Height**) and resolution for the exported figure.
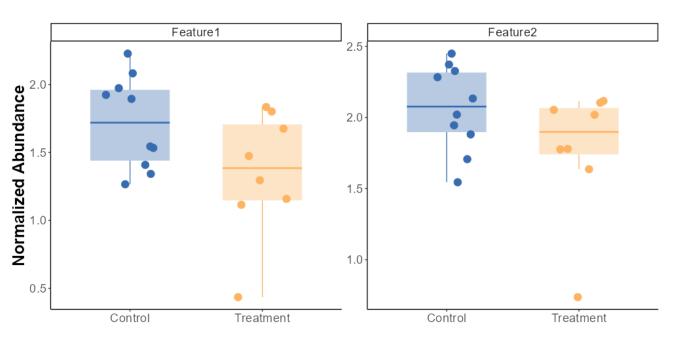

Note: Figure should be exported at 300 dpi or higher.

Step 4: Export the Box Plot

3. Select figure format for the exported figure (.png, .tiff, .pdf, .svg).

4. Select option "Download Plot" to export the figure.

Note: The .svg format could be further processed with an approriate toolkit.