

‘How to Curate Templates’

Introduction

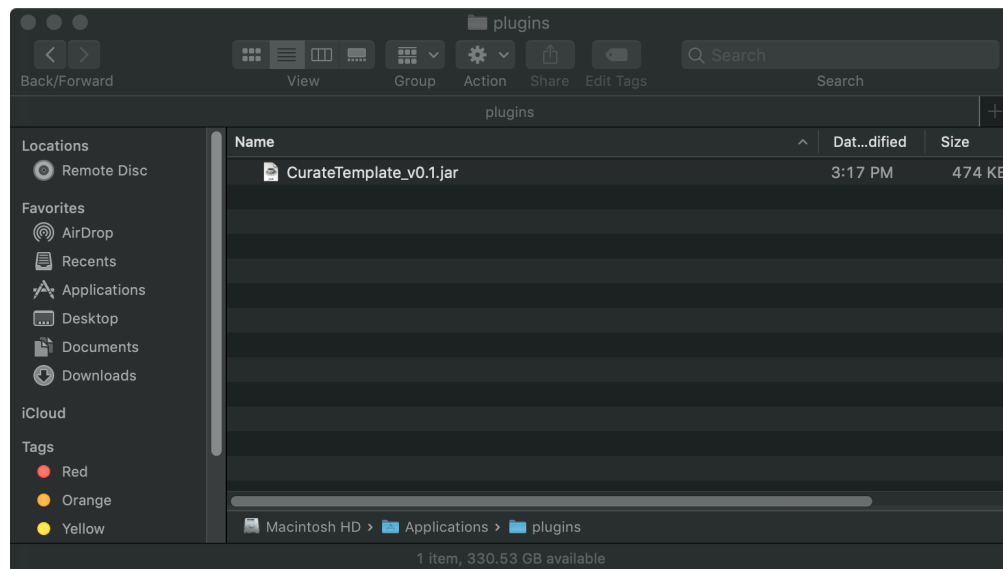
The Curate Template plugin was made to assist with editing templates to make them compatible with data files that have slightly different properties than the files initially used to create the template. This can be useful for adapting a template to make it work with files that contain similar markers to those used in the original template, but the .fcs files were recorded with different parameter names. The gated parameter names can be remapped to the names of the parameters in the new file to apply the template analysis to that file. If the template has gates created on parameters that no longer exist in the other files, those gates will be removed from the gating hierarchy.

For a beautiful basic instructional video, check this link: tinyurl.com/curate-template-demo

Setting up the Curate Template Plugin

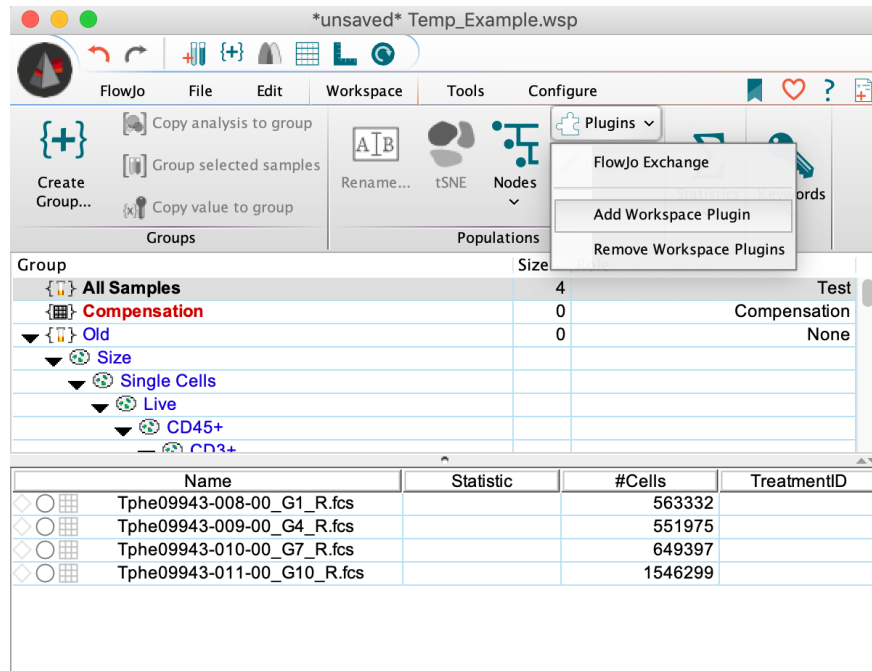
There are detailed instructions on how to set up plugins in our [online documentation](#).

Curate Template can be set up by placing the Curate Template JAR file into a “plugins” folder.

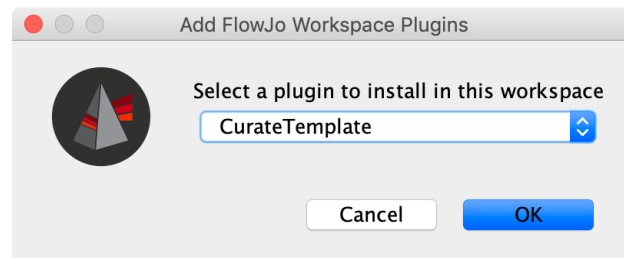


Using Curate Template

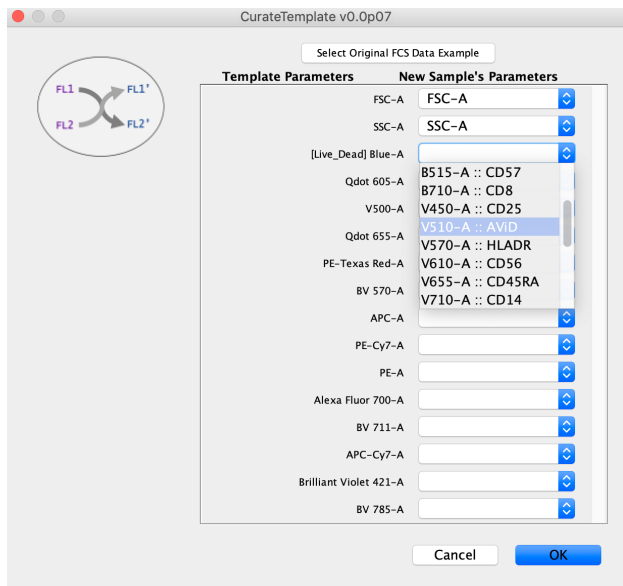
Curate Template is made to adjust existing templates to make them work with new batches of data that are formatted differently. First, open the FlowJo template that requires adjustment and load the new data that the template is being adjusted to support. Go to the “Plugins” dropdown menu under the workspace tab and select “Add workspace plugin”.



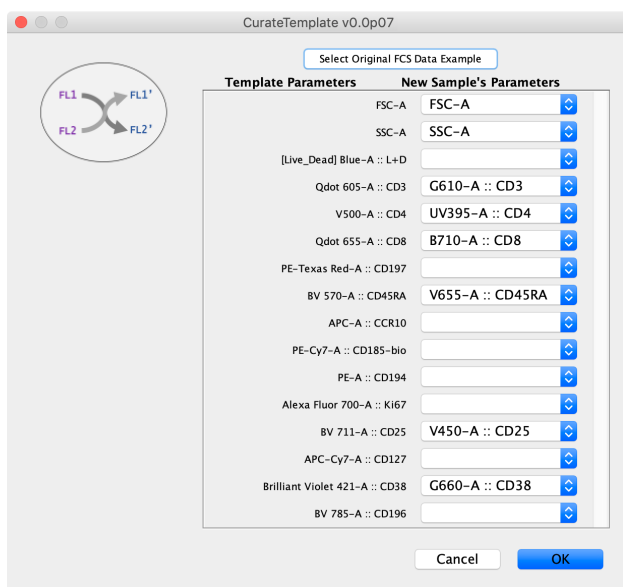
From the workspace plugin selection menu select the “Curate Template” plugin.



A window will appear where the template parameters can be matched with the parameters contained within the loaded .fcs files. The parameter in the .fcs file that corresponds with the parameter in the template can be selected by clicking on the blank box next to the parameter list and choosing the corresponding parameter from the dropdown menu. If a parameter in the template is missing from the new data set then that parameter can either be left blank or “Not available” can be selected.



The template does not contain information about the stain names so those will not be listed next to the template's parameters by default. If the user wants to add the stain names for reference, the “Select Original FCS Data Example” button can be used to select the original .fcs file and add its stains to the template parameter names. The parameters will then be automatically matched to each other based on the stain names. Parameters whose stain names do not match will be left blank.



When the parameters have all been matched appropriately the “Ok” button can be selected. This will create a new workspace with the new data loaded into it. The gates of this new workspace will be remapped to fit the parameters of the .fcs file loaded into the workspace. If a gate was created on a parameter that was unmatched, that gate and its children population will be removed.

Old Template

Name	Statistic	#Cells
NewSample.fcs		428831
Lymphocytes	30.76%	131922
Live		
CD3+	0%	0
Q1: CD4-, CD8+	0%	0
CD45RA+	0%	0
CCR10-	0%	0
CD185-	0%	0
CD194-	0%	0
CD197+	0%	0
CD197-	0%	0
CD45RA-	0%	0
Q2: CD4+, CD8+	0%	0
Q3: CD4+, CD8-	0%	0
CD25+, CD127-	0%	0
CD45RA+	0%	0
CD45RA-	0%	0
CD25+, CD127--	0%	0
CD45RA+	0%	0
CD197+	0%	0
CD197-	0%	0
CD45RA-	0%	0

New Workspace

Name	Statistic	#Cells
NewSample.fcs		428831
Lymphocytes	30.76%	131922
Live	92.83%	122464
CD3+	72.45%	88722
Q1: CD4-, CD8+	40.22%	35681
CD45RA+	47.75%	17036
CD45RA-	45.93%	16389
Q2: CD4+, CD8+	4.105%	3642
Q3: CD4+, CD8-	48.38%	42920
CD25+, CD127-	3.348%	1437
CD45RA+	15.17%	218
CD45RA-	83.92%	1206
CD25+, CD127--	96.65%	41483
CD45RA+	51.84%	21506
CD45RA-	46.70%	19373
CD197+	24.53%	4752
CD197-	75.47%	14621
Q4: CD4-, CD8-	7.303%	6479

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Please write to flowjo@bd.com with any questions!