



FlowJo Plate Editor Bridge

1. Preface

FlowJo Plate Editor helps automate the annotation of FCS files. Indeed, keywords can be imported from a csv file and added to a set of FCS files, as long as the csv and FCS files share the common identifier “Well Id”.

If you design your experiments in an xlsx document, the following Excel macro will facilitate the transfer of values from selected rows and columns to a csv file for import into the plate editor.

2. The Excel Macro

The provided macro is called “Experiment.xlsm” and contains the “Transfer to PlateEditorImport.csv” button.

Transfer to PlateEditorImport.csv

This button is linked to the following code that creates a csv file to the computer desktop and add the range of cells **A1 to C97** before saving the file. This range can be modified as needed.

```
Sub CSVTransfer()  
    Dim WB1 As Workbook  
    Dim WB2 As Workbook  
    Dim FilePath As String  
  
    ' Set WB1 to the current workbook  
    Set WB1 = ThisWorkbook  
  
    ' Create a new workbook for WB2  
    Set WB2 = Workbooks.Add  
  
    ' Define the file path for saving the CSV file on the desktop  
    FilePath = CreateObject("WScript.Shell").SpecialFolders("Desktop") & "\PlateEditorImport.csv"  
  
    ' Transfer data to CSV file  
    With WB2.Sheets(1)  
        .Range("A1:C97").Value = WB1.Sheets(1).Range("A1:C97").Value  
    End With  
  
    ' Save the CSV file  
    WB2.SaveAs Filename:=FilePath, FileFormat:=xlCSV, Local:=True  
  
    ' Close the workbook without saving changes (since it is already saved)  
    WB2.Close SaveChanges:=False  
  
    ' Notify user about completion  
    MsgBox "Data transferred successfully to PlateEditorImport.csv on desktop!", vbInformation  
End Sub
```

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3. Results

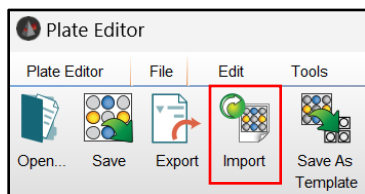
In this example, 11 wells of a 96-well plate were recorded: A1-A10 and B1. The Experiment.xlsm contains information on these 11 wells.

A	B	C	D	E	F	G	H
WELL ID	\$FIL	Concentration	Treatment	Transfer to PlateEditorImport.csv			
A01	Mouse 1	1.25	A				
A02	Mouse 2	2.5	A				
A03	Mouse 3	5	A				
A04	Mouse 4	10	A				
A05	Mouse 5	20	A				
A06	Mouse 6	40	A				
A07	Mouse 7	80	A				
A08	Mouse 8	160	A				
A09	Mouse 9	320	A				
A10	Mouse 10	640	A				
A11							
A12							
B01	Mouse X	unknown	A				

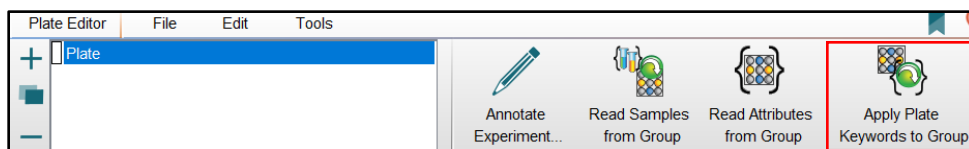
The PlateEditorImport.csv generated once the button is clicked only contains the first 3 columns as per the aforementioned code and therefore, only this information will be added to each file.

To import the PlateEditorImport.csv:

- ✓ FlowJo menu > Plate Editor
- ✓ File > Import and select the csv file



- ✓ Plate Editor > Apply Plate Keywords to Group



Before Annotation

Name	Statistic	#Cells	Well ID:	Concentration
Specimen_002_B1_B01_011.fcs		4809	B01	
Specimen_002_A1_A01_001.fcs		2761	A01	
Specimen_002_A2_A02_002.fcs		3310	A02	
Specimen_002_A3_A03_003.fcs		6581	A03	
Specimen_002_A4_A04_004.fcs		12801	A04	
Specimen_002_A5_A05_005.fcs		3178	A05	
Specimen_002_A6_A06_006.fcs		7064	A06	
Specimen_002_A7_A07_007.fcs		7911	A07	
Specimen_002_A8_A08_008.fcs		15487	A08	
Specimen_002_A9_A09_009.fcs		13171	A09	
Specimen_002_A10_A10_010.fcs		8374	A10	

After Annotation

- New Filenames
- Added concentrations

Name	Statistic	#Cells	Well ID:	Concentration
Mouse X		4809	B01	unknown
Mouse 1		2761	A01	1.25
Mouse 2		3310	A02	2.5
Mouse 3		6581	A03	5
Mouse 4		12801	A04	10
Mouse 5		3178	A05	20
Mouse 6		7064	A06	40
Mouse 7		7911	A07	80
Mouse 8		15487	A08	160
Mouse 9		13171	A09	320
Mouse 10		8374	A10	640