FCS Express Cytometry

FCS EXPRESS QUICK GUIDE:

10

TEN

Easy Steps For Getting Started.

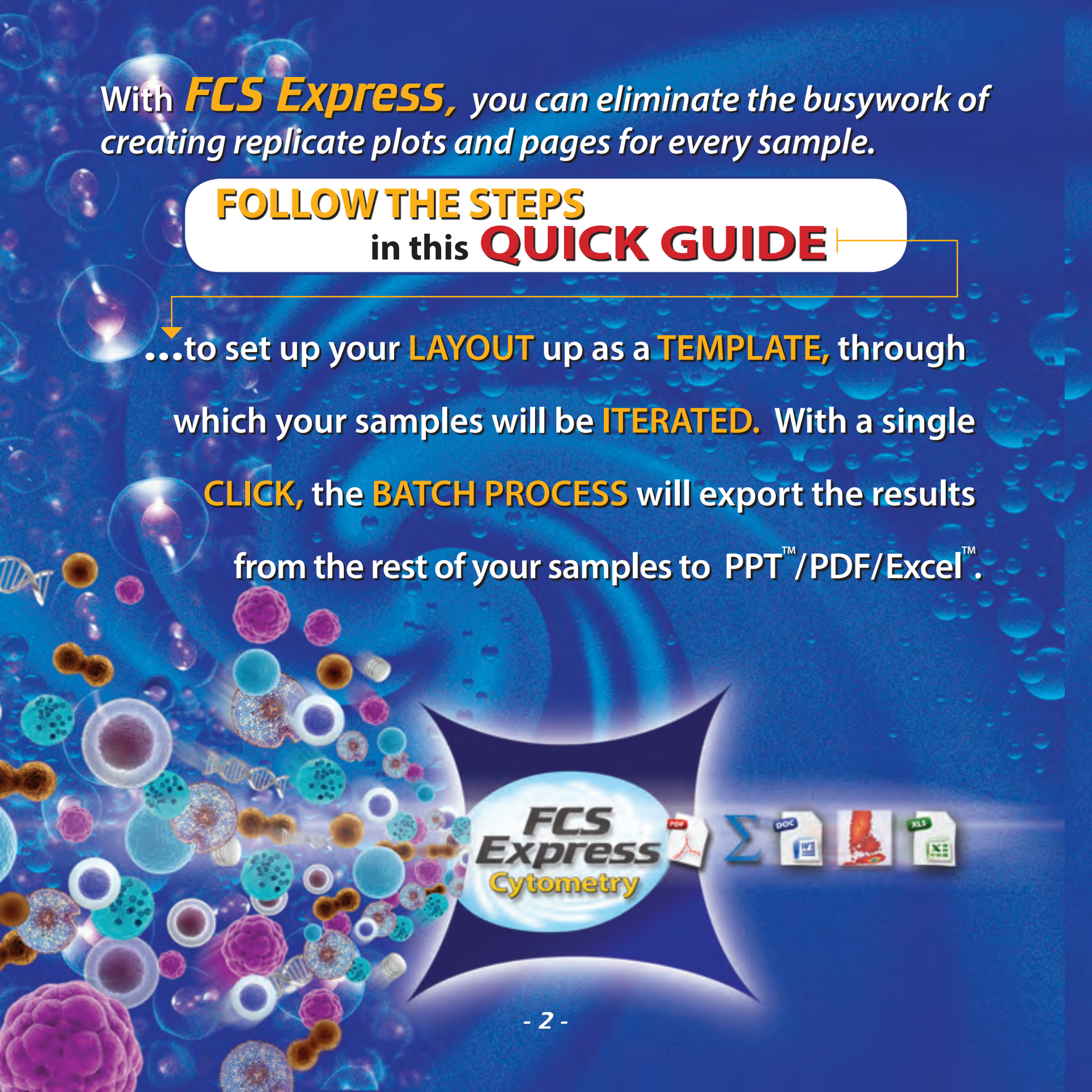
De Novo Software

Turning Cytometry Data Into Results™

With ***FCS Express,*** *you can eliminate the busywork of creating replicate plots and pages for every sample.*

FOLLOW THE STEPS
in this QUICK GUIDE

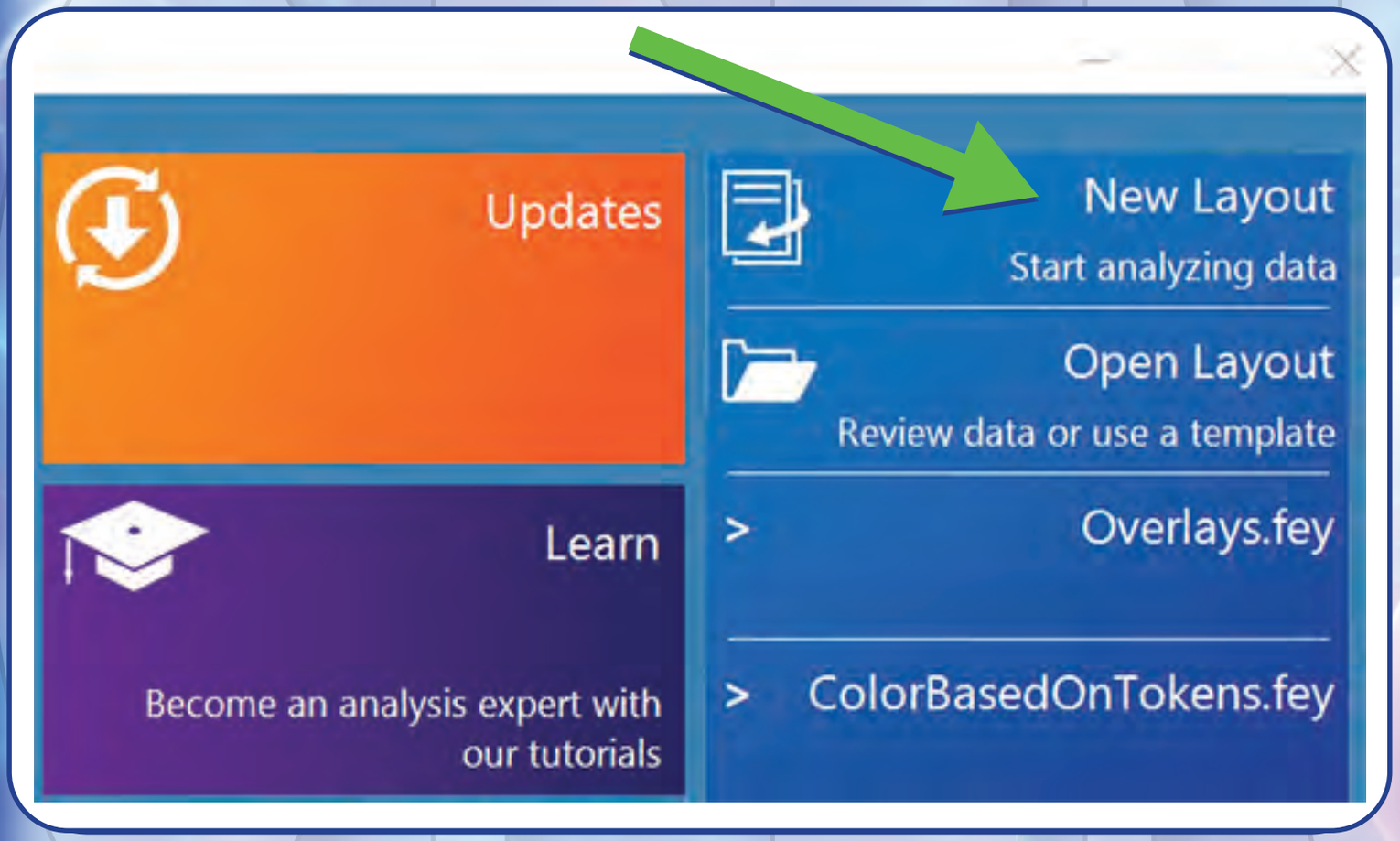
…to set up your LAYOUT up as a TEMPLATE, through which your samples will be ITERATED. With a single CLICK, the BATCH PROCESS will export the results from the rest of your samples to PPT™/PDF/Excel™.



CONTENTS

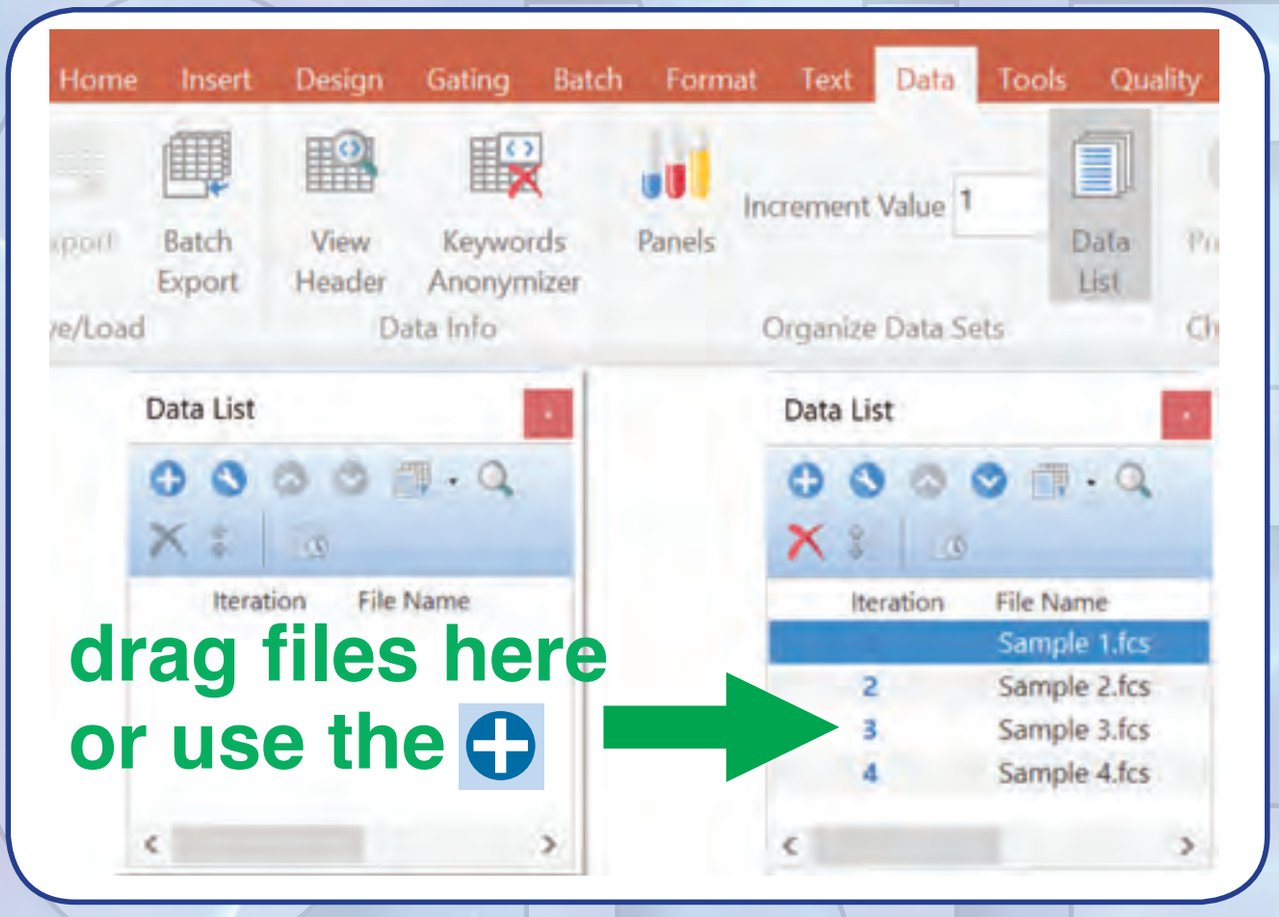
OPEN A NEW LAYOUT

From "Startup Screen" click "New Layout



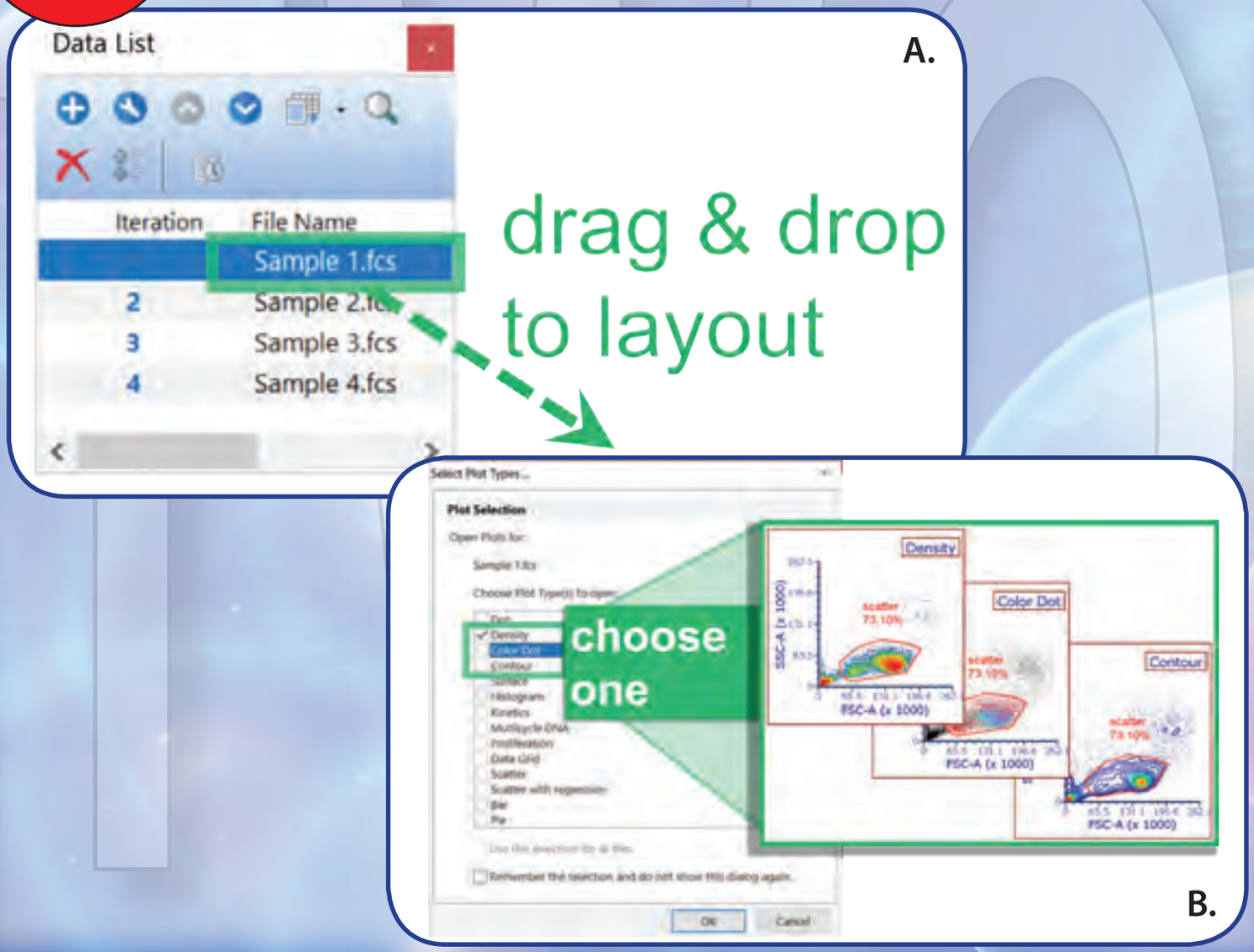
LOAD DATA FILES INTO LAYOUT

1 *Define the list of data files to work with, from your experiment.*



LOAD DATA FILES INTO LAYOUT

2 *Insert a 2D-plot of one of your data files.*



- A.) Drag and drop the first filename in the DATA LIST to an empty spot on your layout, and B.) choose DENSITY, COLOR DOT or CONTOUR plot type. We'll use screenshots of each throughout this guide.

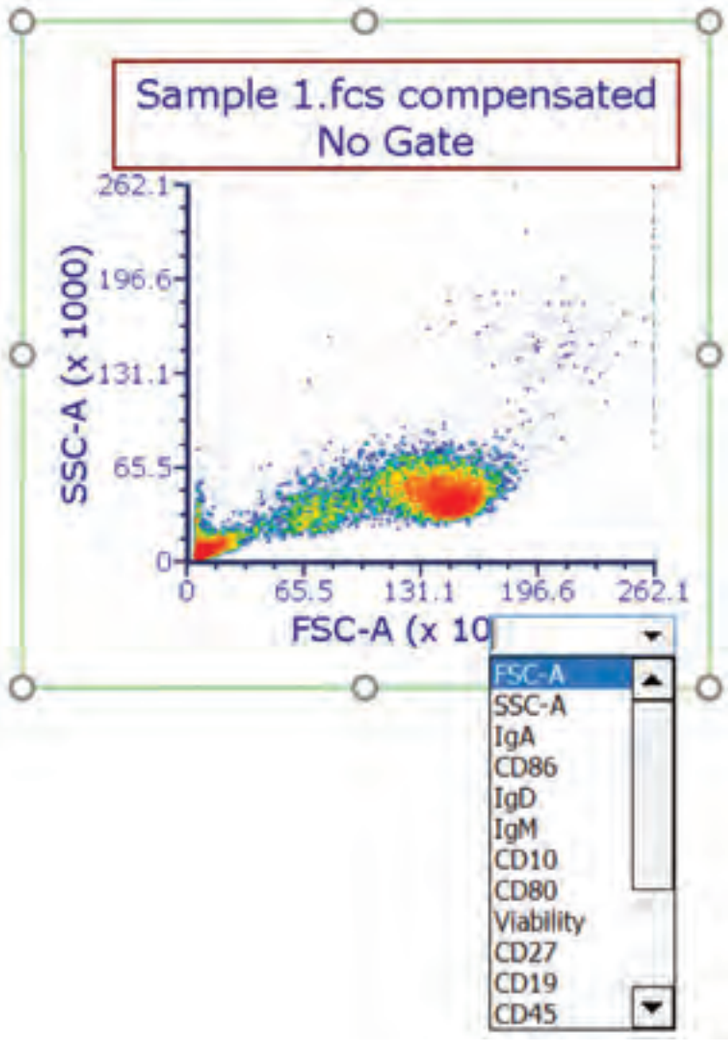
- Changed your mind about what plot type you want? SEE TIP #1

- Need to add overlays for positive or isotype controls, etc.? SEE TIP #2

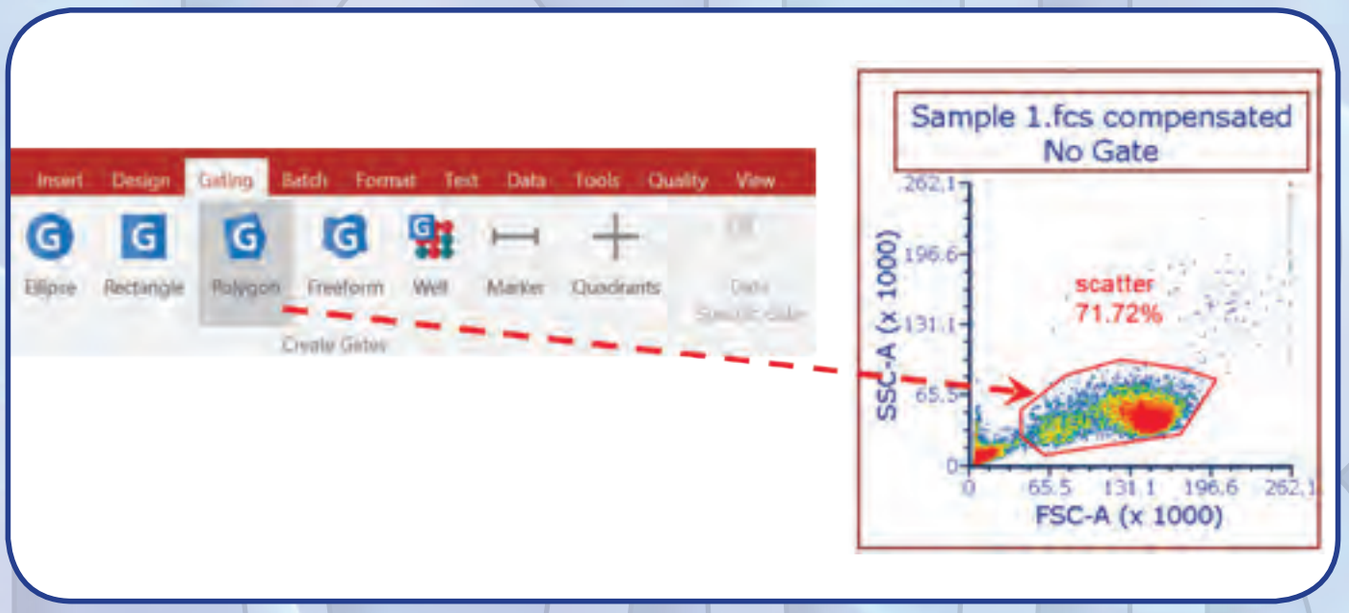
GATE YOUR DATA

3 Click on plot axes to change axis parameters

(e.g., to SSC vs. FSC)



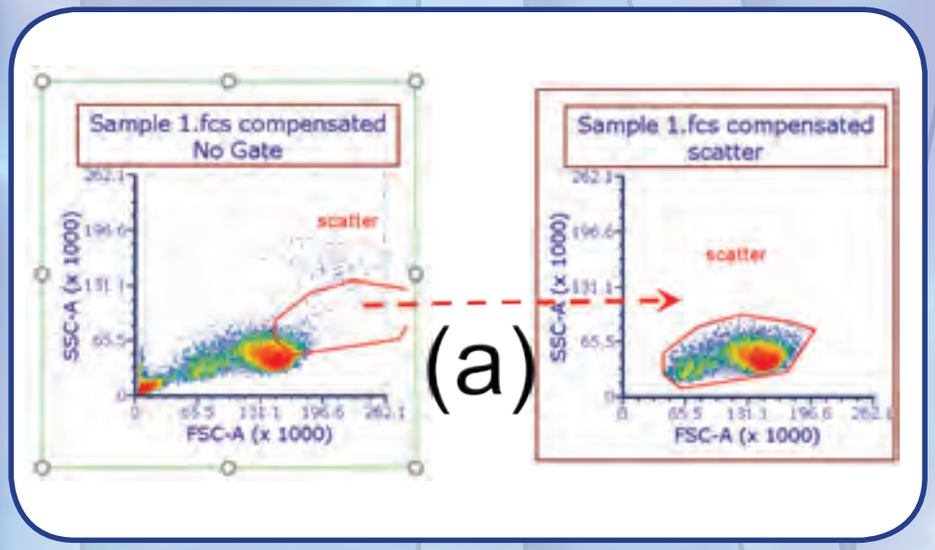
4 Draw a Gate on your Plot

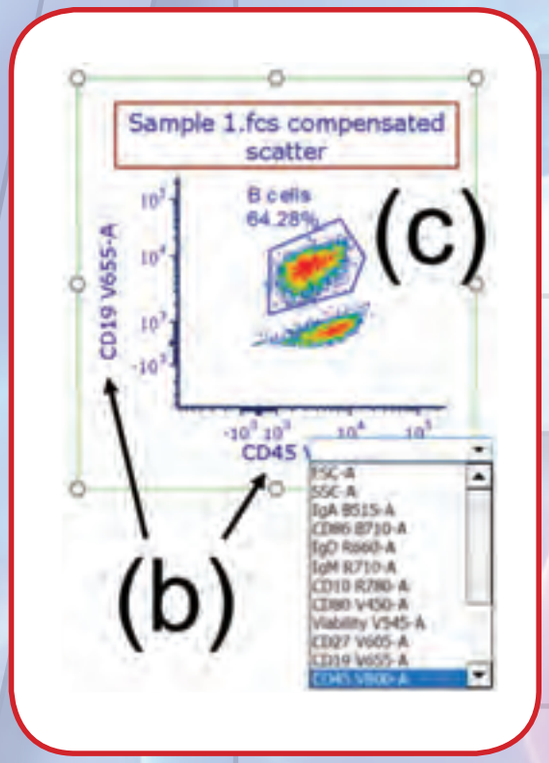


- Choose POLYGON from the Gating Tab, and click where you want each vertex to appear.
- To close the gate, click on the original vertex or press SPACE on your keyboard.
- Name the gate, e.g., “SCATTER”.

GATE YOUR DATA

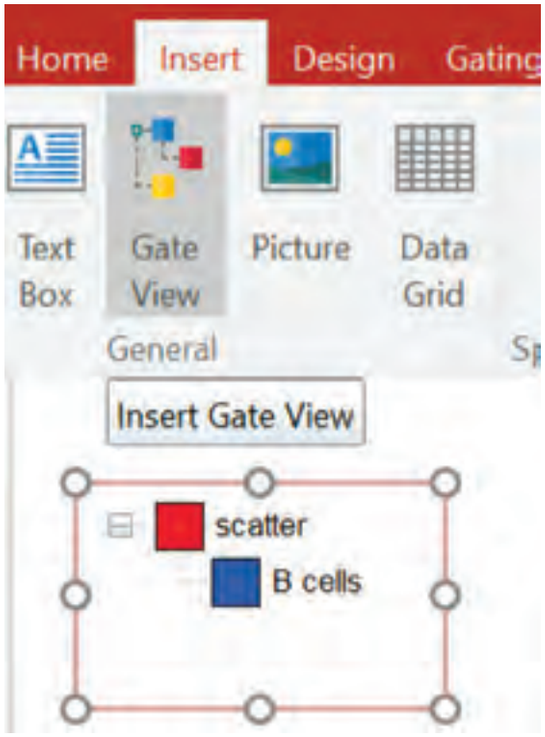
5 ***Drag and drop the gate out of the plot to open a new plot displaying this gated population (a), change the plot axes to new parameters (b), and draw a new gate on the plot (c).***





- **Want to create Quadrants instead of, or in addition to Gates on this new plot?** **SEE TIP #3**

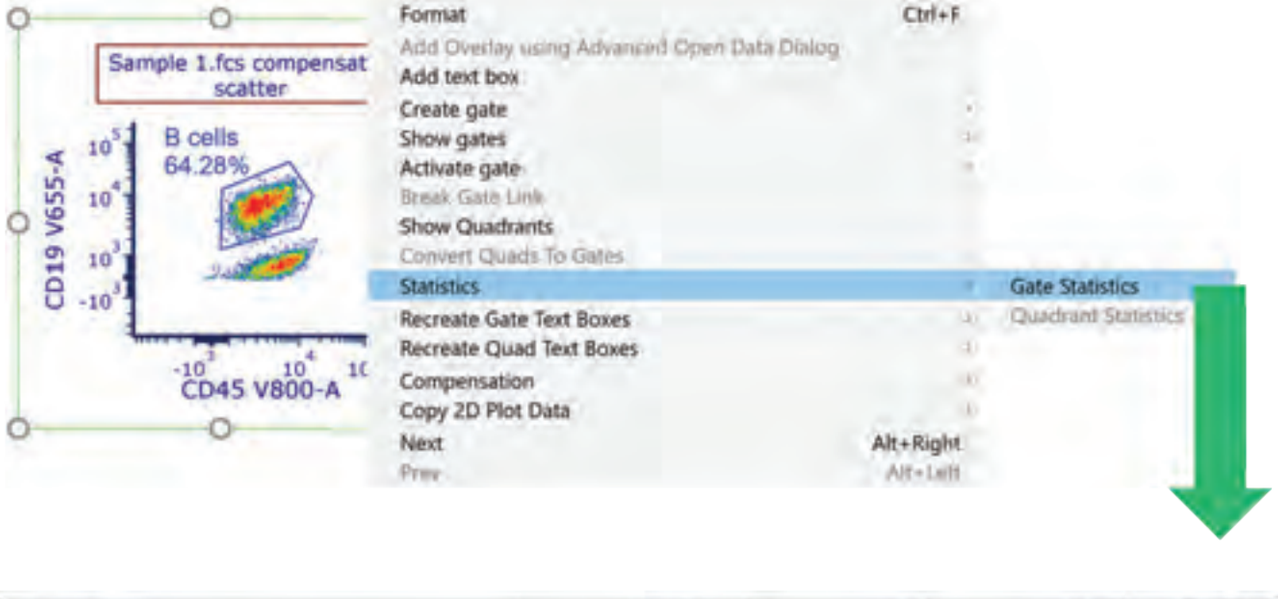
6 *View an interactive legend of your gates.*



- Insert tab> GATE VIEW. Click on an empty spot on your layout.
- From here, you may re-define your gating hierarchy, delete or rename gates, etc.
- You can also drag and drop gates from here to any plot to re-gate that plot.

VIEW SUMMARY STATISTICS

7 *View default summary statistics from this plot.*



Overlay #	Filename	Gate	# of Events	X Geometric Mean	Y Geometric Mean	% of gated cells	% of all cells
1	Sample 1.fcs compensated	None	12868	n/a	n/a	100.00	71.72
1	Sample 1.fcs compensated	scatter	12868	n/a	n/a	100.00	71.72
1	Sample 1.fcs compensated	B cells	8271	3272.74	6247.08	64.28	46.10

VIEW SUMMARY STATISTICS

- These statistics reflect the population that the plot is gated on.

- You may right-click on the STATISTICS WINDOW to add or remove any desired statistic.

- You can also drag and drop any of these statistics to insert them onto a plot or elsewhere on your layout

SEVEN

GREAT JOB! ***You've now learned the basics of:***

- ***Loading your Data Files into the Layout***
- ***Creating Gates*** **and**
- ***Viewing Summary Statistics***

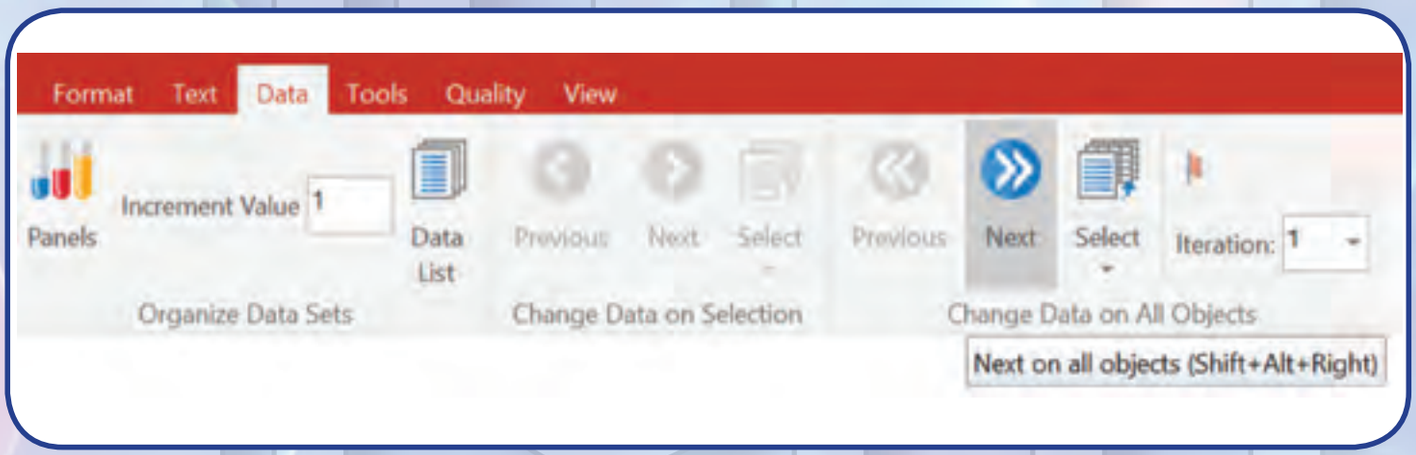
Complete the next few steps to quickly summarize the, results from all your data files in a *Batch Process* to Microsoft Office™, PowerPoint™ & Excel™.

8 Preview Your Data Files

(Optional)

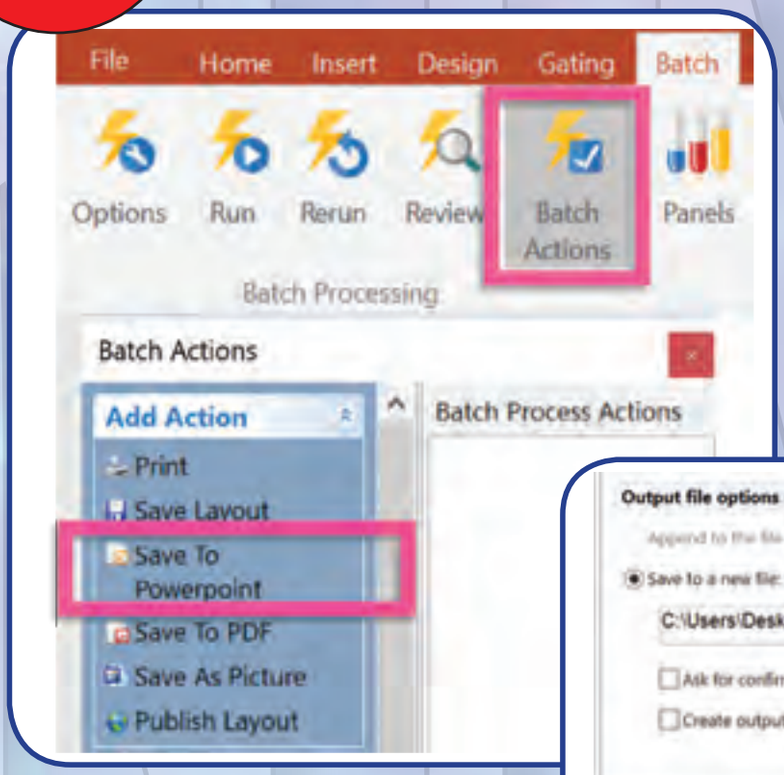
You can preview your entire list of data files without having to create replicate sets of plots for each, simply by using the Next/Prev buttons.

Just make sure you go back to Iteration #1 before going on to Step 10 below.

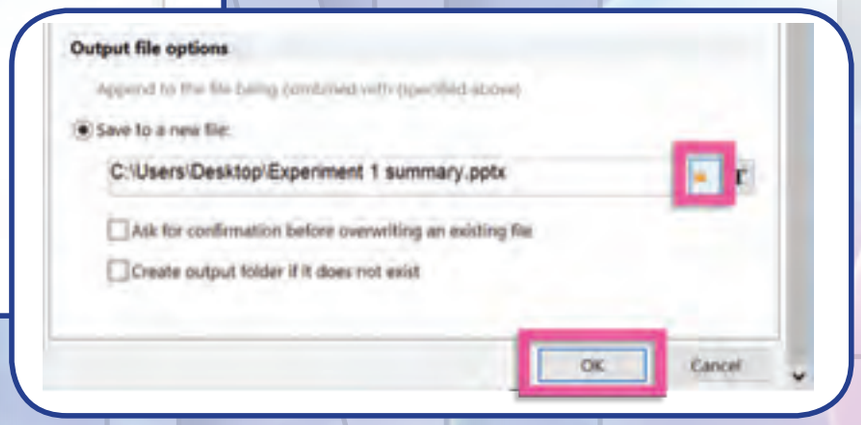


- Data tab> Change Data on All Objects> Next/Previous

9a Set Up a Batch Process to PowerPoint

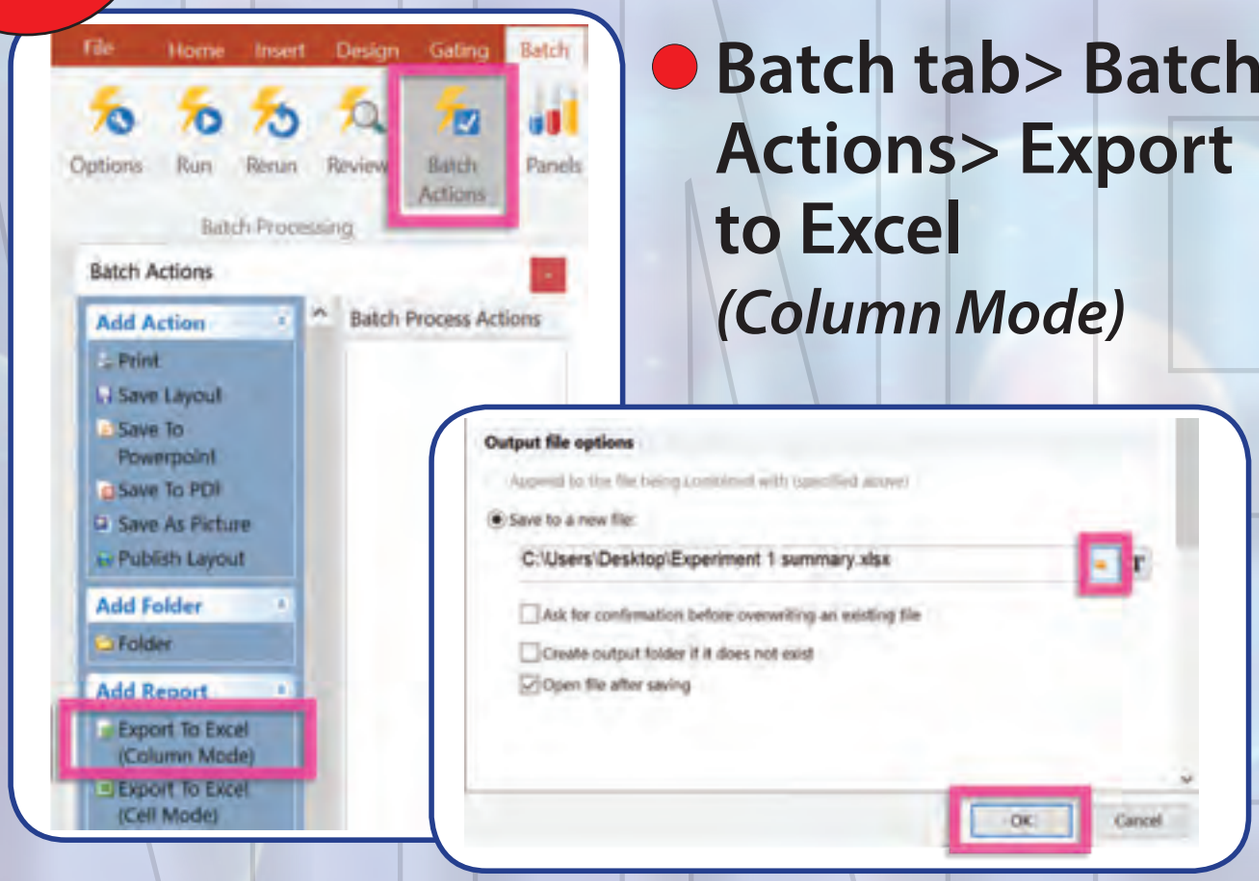


- Batch tab> Batch Actions> Save to PowerPoint



- Under Output File Options> Save to a New File, click on the yellow folder icon to set the filepath and filename for your PPT export> Click OK.

9b Set up a Batch Process to Excel

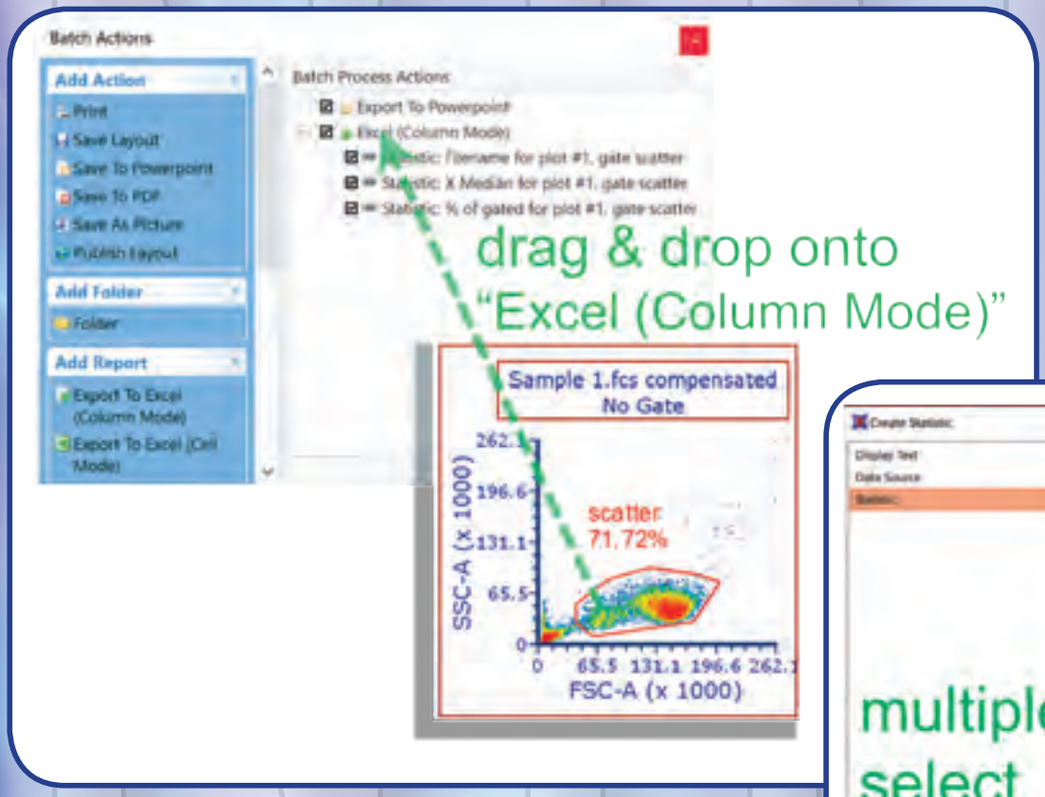


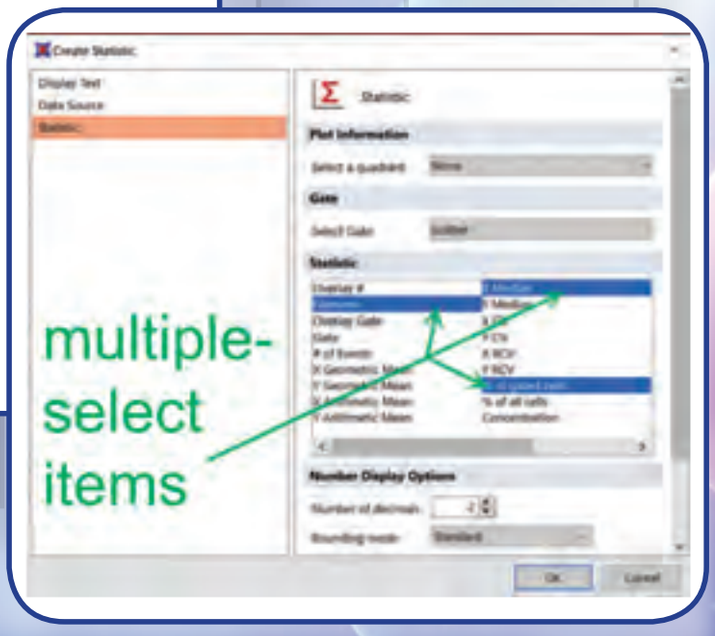
- Batch tab> Batch Actions> Export to Excel *(Column Mode)*

- Under Output File Options> Save to a New File, click on the yellow folder icon to set the filepath and filename for your XLSX export> Click OK.

BATCH PROCESS YOUR DATA FILES

9c *Choose statistics and filenames or other metadata to export to Excel.*





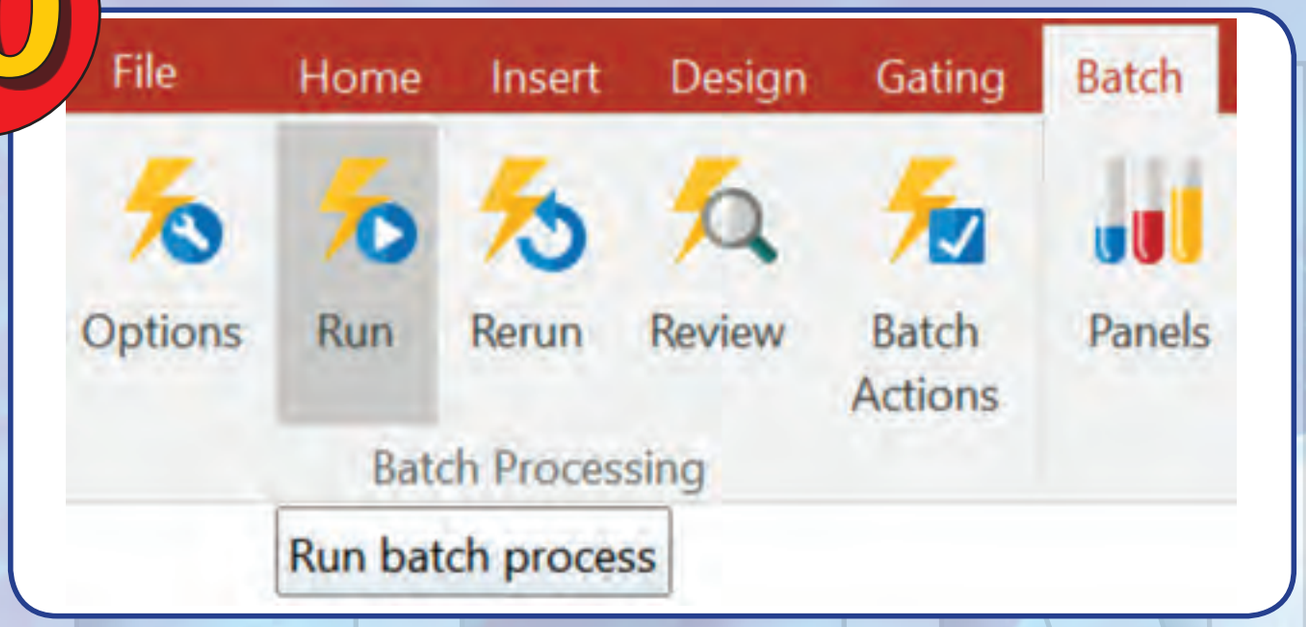
BATCH PROCESS YOUR DATA FILES

- Drag & drop a **PLOT** or a **GATE** to the "Excel (*Column Mode*)" Batch Action

- Multiple-select items from the resulting dialog window to export to Excel and click OK

NOTE: Be sure to select **FILENAME** so that this descriptive information appears in the first column of your Excel Spreadsheet

10 Run the Batch Process



- "Batch tab > Batch Processing > Run"
- All data files in your experiment (viewable within the DATA LIST as shown in STEP 2 above) have now been PROCESSED and SUMMARIZED in visual and statistical form. Open your PowerPoint and Excel files, respectively, to see!

Need to adjust gates individually for each sample?

SEE TIP #4

FAQ/TIPS

#1: I WANT COLOR DOT PLOTS, BUT I ALREADY INSERTED CONTOUR / DENSITY / HISTOGRAM PLOTS (OR VICE-VERSA). CAN I CHANGE MY MIND WITHOUT STARTING OVER? *You can change the type of existing plots on your layout by selecting the plot(s) as you would object(s) in PowerPoint, and using the Format tab> Change Plot Type button.*

#2: HOW DO I CREATE OVERLAYS? *You can create overlays by dragging and dropping files from the Data List onto existing Color Dot or Histogram plots. Be sure to anchor control or reference overlays (e.g., positive and isotype controls) so that they don't change during the batch, by right-clicking on the plot with multiple overlays> Format> Overlays> select the control overlay(s)> uncheck Change data during Next/Prev/Batch.*

#3: HOW CAN I CREATE QUADRANTS AND MARKERS? *The Gating tab has buttons for Quads and Markers. You can also right-click on a plot to create Gates, Quads (on 2D-plots), and Markers (on 1D-plots) from the pop-up menu.*

#4: MY GATED POPULATIONS SHIFT AROUND FROM SAMPLE TO SAMPLE. CAN THE BATCH PROCESS HANDLE THIS, OR MUST ALL GATE SIZES AND POSITIONS BE THE SAME ACROSS SAMPLES? *You can adjust gate position and size individually for each data file via Batch tab> Options> check Unconditionally pause between iterations prior to Running or Re-running the Batch. Alternatively, you can use Gating tab> Data-Specific Gates, which are also useful for when you have plots from multiple samples side by side (simultaneously) in the layout.*

NEED HELP?

Contact us by email or phone. Our response is guaranteed within 24 business hours, usually much sooner (*within a few hours*).

Support@DeNovoSoftware.com

or

+1 (213) 814-1240

HELP RESOURCES
(Also accessible from Startup Screen)

SEE OUR VIDEOS

Quick video clips (2-3 min each)

https://www.denovosoftware.com/videos/#shortoverview

Full-length recorded webinars

https://www.denovosoftware.com/videos/

ONLINE STEP-BY-STEP WRITTEN TUTORIALS

and

SEARCHABLE MANUAL

https://www.denovosoftware.com/full-access/manual-tutorials

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