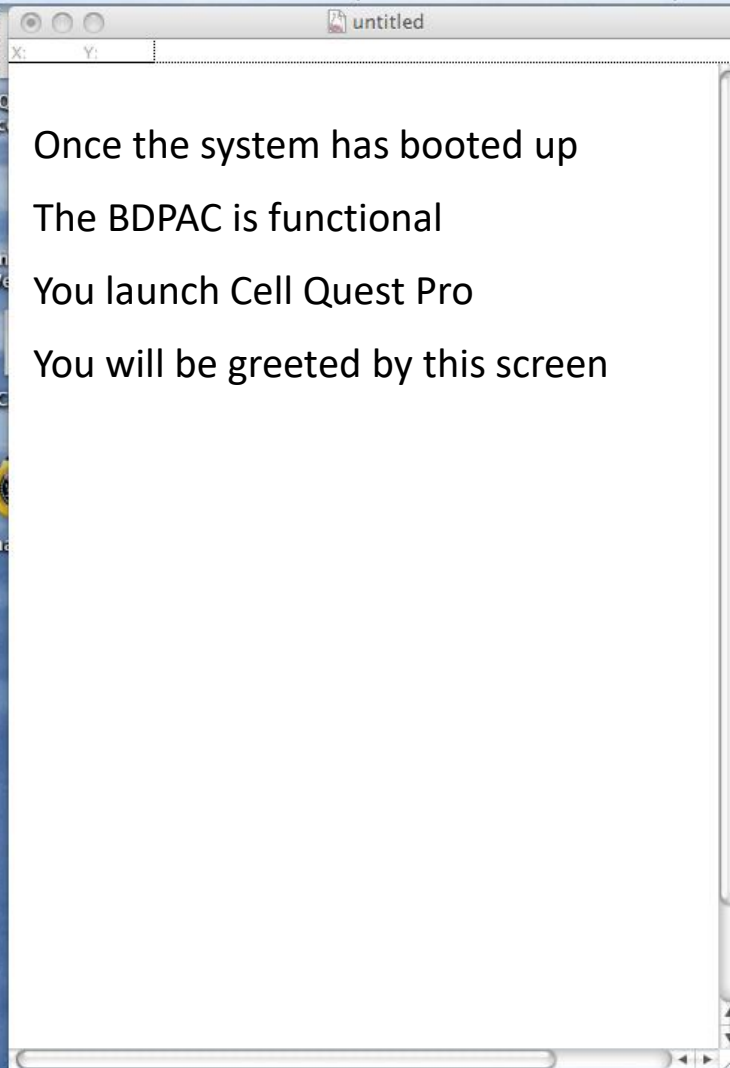


Cell Quest Pro

Operational Overview

Part of Hybrid Training system

2020 rev 1



FACStation



orphans



FSE Restore



Burn Folder



QC.pdf

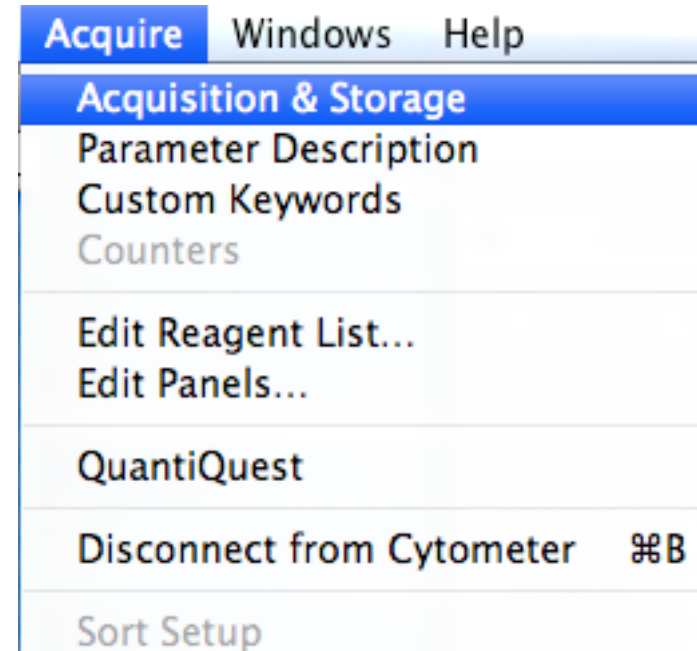


Data



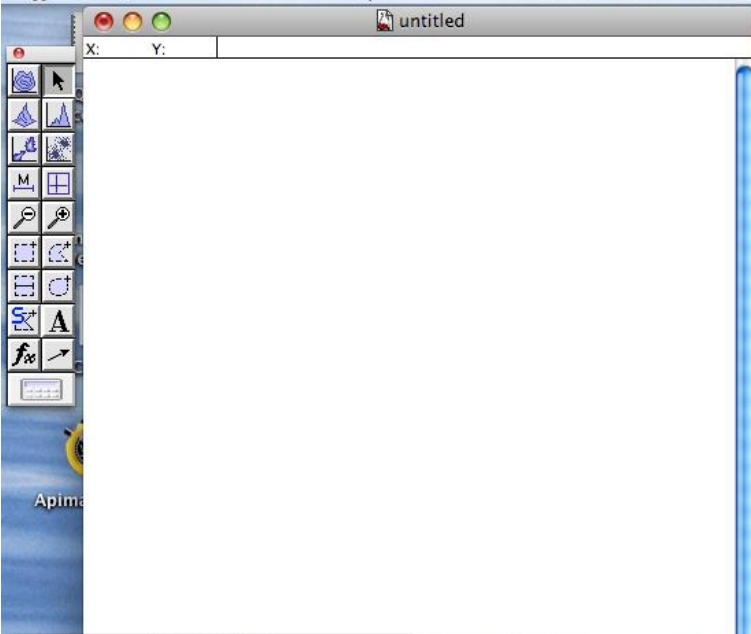
FCS

- The next step that must be done in order to do anything else is a visit to the acquire tab and select Connect to Cytometer
 - CMD-B



- Once connected to the cytometer
- Open the cytometer menu tab and launch all four of the CMD shortcuts
- This will allow you to adjust your voltages and see if the system is happy. (1 and 4 are crucial, 3 is not necessary for single color runs, 2 is at an acceptable default)

Cytometer	Plots	Gates
Detectors/Amps		⌘1
Threshold		⌘2
Compensation		⌘3
Status		⌘4
Instrument Settings...		
Sort Counters		
Time-Delay Calibration		



Detectors/Amps				
Param	Detector	Voltage	Amp Gain	Mode
P1	FSC	E00	1.00	Lin
P2	SSC	350	1.00	Lin
P3	FL1	600	1.00	Lin
P4	FL2	550	1.00	Lin
P5	FL3	650	1.00	Lin
P6	FL2-A		1.00	Lin
P7	FL2-W		1.00	Lin
P7	FL4	800		Lin

☐ Four Color DDM Param: FL2

Threshold		
Value:	Primary Param:	Secondary Param:
S2	<input checked="" type="radio"/> FSC-H	
S2	<input type="radio"/> SSC-H	<input type="radio"/> SSC-H
S2	<input type="radio"/> FL1-H	<input type="radio"/> FL1-H
S2	<input type="radio"/> FL2-H	<input type="radio"/> FL2-H
S2	<input type="radio"/> FL3-H	<input type="radio"/> FL3-H
S2		<input type="radio"/> FL4-H
S2		<input checked="" type="radio"/> None

Compensation		
FL1 -	0 %	FL2
FL2 -	0 %	FL1
FL2 -	0 %	FL3
FL3 -	0 %	FL2
FL3 -	0 %	FL4
FL4 -	0 %	FL3

Status

Test Pulses: Off

Status: Standby

Laser Power: 5.10 mWatts

Laser Current: 3.98 Amps

Sample Voltage: 10.23 Volts

Sheath Fluid: OK

Waste Tank: OK

Acquisition Control

Operator: FACS User

File: FACStation:BD Applications:CellQuest Pro Folder:Data.001

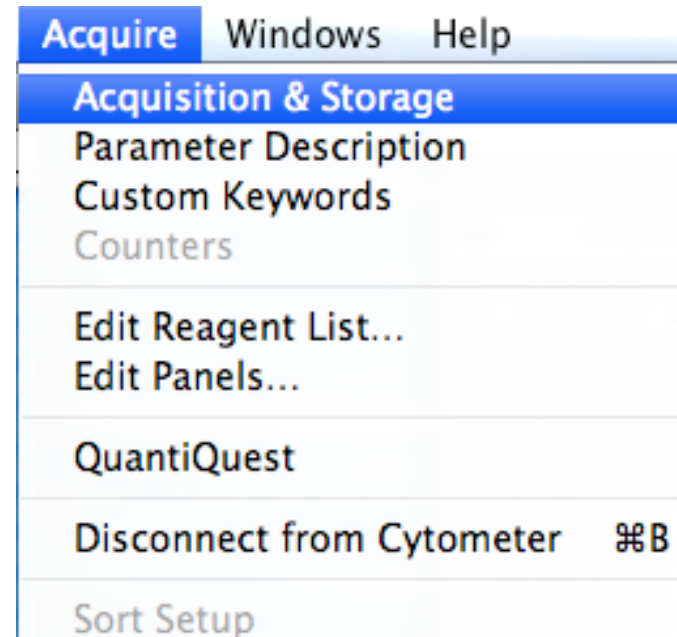
☒ Setup



- Now go back to acquisition,
- This time choose Acq&Storage
 - Here you can specify how many events you would like capture before the data file closes. Default is 10k
 - Don't change any of the other parameters unless you know what you are doing

Choose Counters to bring up a super useful little window that allows you to monitor your events

Parameter Description will allow you enter specific information with your tubes



STARTER

X: 919 Y: 522

Plot 1: Data.003

Plot 2: Data.003

File: Data.003

Sample ID:

Tube: Untitled

Acquisition Date: 01-Sep-20

Gated Events: 20000

X Parameter: FL1-H (Log)

Log Data Units: Linear Values

Patient ID:

Panel: Untitled Acquisition Tube List

Gate: No Gate

Total Events: 20000

Marker	Left, Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median	Peak Ch
All	1, 9910	20000	100.00	100.00	1365.45	751.34	71.45	1910.95	1963

Detectors/Amps

Param	Detector	Voltage	Amp Gain	Mode
P1	FSC	E00	5.57	Lin
P2	SSC	363	1.00	Lin
P3	FL1	412	1.00	Log
P4	FL2	550	1.00	Lin
P5	FL3	650	1.00	Lin
P6	FL2-A		1.00	Lin
P7	FL2-W		1.00	Lin
P7	FL4	800		Lin

☐ Four Color DDM Param: FL2

- Acquisition & Storage
- Parameter Description
- Custom Keywords
- Counters
- Edit Reagent List...
- Edit Panels...
- QuantiQuest
- Disconnect from Cytometer ⌘B
- Sort Setup

BROWSER: STARTER

Acquisition Analysis

Controls

Acquire Restart Save Abort

Comments: Todd:20200901: a.002 CS User

Experiment Components

	Filename
Global Settings	
Acquisition Plots	
Untitled Acquisition Tube List	

Counters

Total Events: 20000

Events/Second: 1180

Elapsed Time: 00:01:01

Reset

Status

Test Pulses: Off

Status: Standby

Laser Power: 5.00 mWatts

Laser Current: 3.98 Amps

Sample Voltage: 6.96 Volts

Sheath Fluid: OK

Waste Tank: OK

Acquisition Control

Operator: FACS User

File: Data:Todd:20200901:Data.004

☐ Setup **Acquire** Restart Save Abort

Inspector: No Selection

ACStation

orphans

SE Restore

Turn Folder

Picture 2

Picture 3

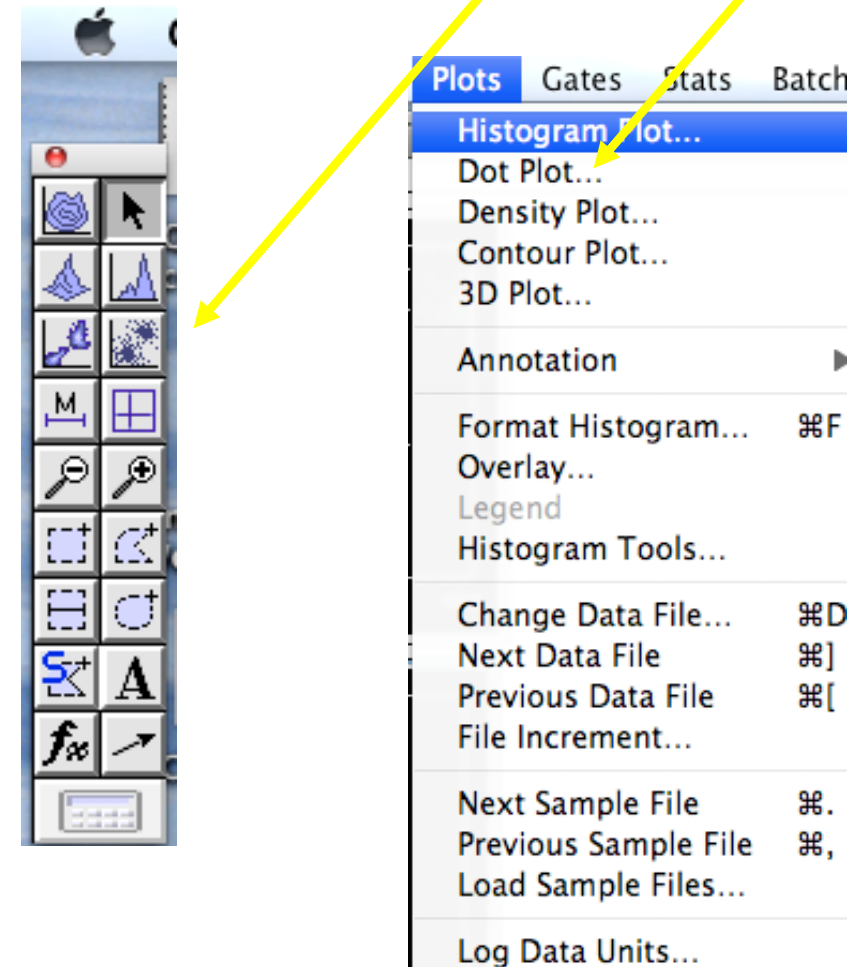
Picture 4

QC.pdf

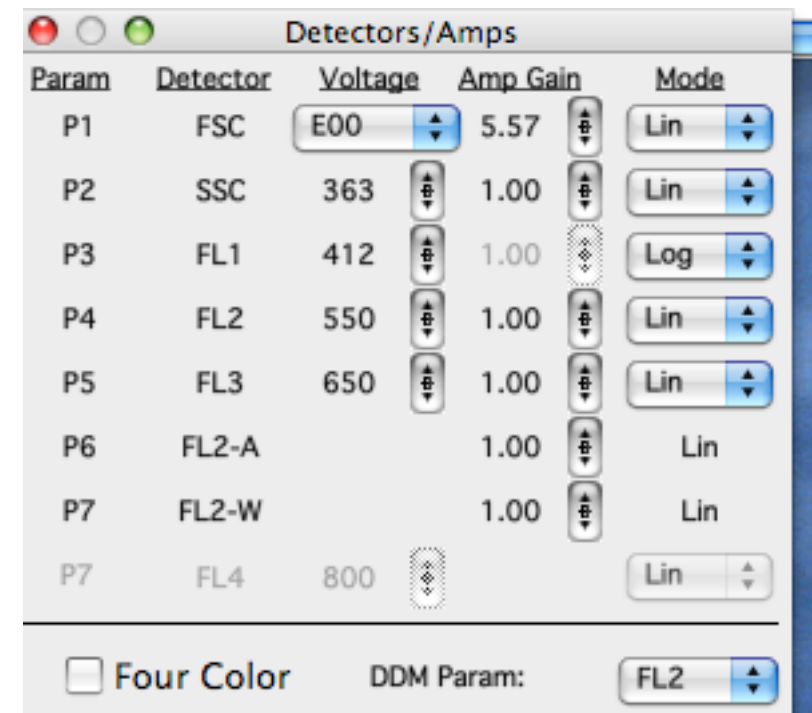
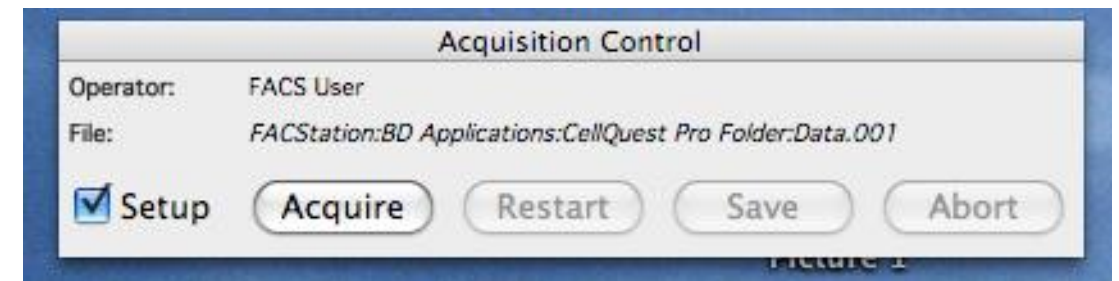
Data

IGC 8-24-18.004

- Either open a document that you have previously created or obtained or simple draw a dot plot in the untitled workspace by clicking dot plot icon or plots menu then dragging on the workspace.
- Once you draw a plot the Inspector window appears. With the plot selected, select acq and analysis in the mode.



- Make sure that the acq control box has setup checked
- Place one of your samples on the SIP, click run on the front of the cytometer (check that light turns green)
- Now you can click run in CQ to start seeing events. See events in the counter window
- Now you are ready to adjust your voltages.
- Once the voltages are adjusted to suit your data. Stop running the sample.
- TIP: you want your FSCvSSC to have a nice population totally on scale without tons of debris



- Nice population on fsc ssc
- Histogram plot of FL shows on scale peaks. (unstained cells set to first decade of log scale during set up)
- File name and save path set in acq control, setup is unchecked.
- You are ready to start for real!

