Cell Cycle   2012 0917_cell cycle jrt_dropper test_7   2012-09-18

Cell Cycle Histogram

Propidium Iodide Fluorescence
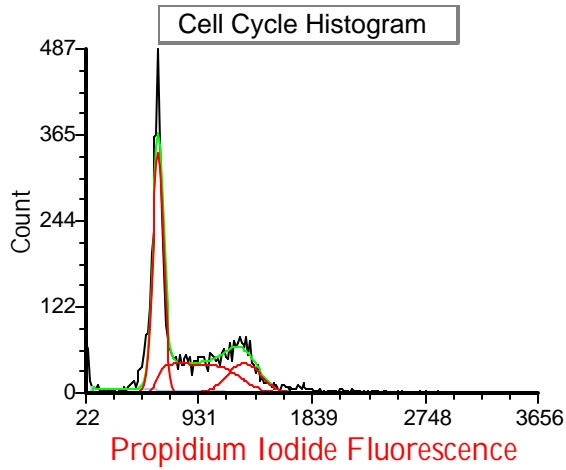
Statistics

	% cells	# cells	conc. cells	
G1	46.8	3044	0.66	e6 / mL
S	35.5	2309	0.50	e6 / mL
G2	17.7	1151	0.25	e6 / mL
total	100.0	6503	1.41	e6 / mL

Instrument Settings
Sensitivity: 6   Circularity: 8

Image Field Array
Bright Field or Fluorescent Image

RFP

Composite of all fields of view (20) from the Tali Instrument. Toggle between Bright field and fluorescent images by left clicking the x axis label and making your selection.

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Cell Data Table

Cell #	perimeter	Cell Diameter	Red Intensity	circularity	BRIGHT	RFP
1	21	7	458.00	1.02		
2	79	25	1763.00	0.56		
3	26	8	933.00	1.14		
4	27	9	596.00	0.86		
5	21	7	592.00	1.10		
6	19	6	31.00	1.15		
7	21	7	577.00	1.08		
8	22	7	589.00	1.07		
9	25	8	614.00	1.01		
10	22	7	599.00	1.12		
11	25	8	764.00	1.13		
12	21	7	585.00	1.11		
13	27	9	964.00	1.00		
14	20	6	580.00	1.06		
15	24	8	906.00	1.18		
16	21	7	597.00	1.08		
17	22	7	559.00	1.15		
18	24	8	703.00	1.06		
19	15	5	540.00	1.16		
20	20	6	712.00	1.08		
21	24	8	980.00	1.12		
22	22	7	632.00	1.13		
23	26	8	898.00	1.09		
24	22	7	606.00	1.13		
25	25	8	522.00	1.04		
26	22	7	625.00	1.17		
27	24	8	762.00	1.09		
28	19	6	600.00	1.23		
29	21	7	587.00	1.10		
30	22	7	600.00	1.10		
31	26	8	1222.00	1.14		
32	26	8	606.00	0.85		
33	24	8	921.00	1.05		
34	25	8	1167.00	1.08		
35	26	8	702.00	1.09		
36	46	15	1489.00	0.79		
37	29	9	1174.00	1.05		
38	48	15	1966.00	0.72		
39	11	3	38.00	1.31		
40	25	8	1060.00	1.12		
41	25	8	1531.00	1.16		
42	22	7	612.00	1.06		
43	31	10	1074.00	0.95		

Tali® Image-Based Cytometer

Cell Analysis Report

Sku	Product Catalog	Size
A10786	Tali® Viability Kit - Dead Cell Red	1 kit
A10787	Tali® Viability Kit - Dead Cell Green	1 kit
A10788	Tali® Apoptosis Kit - Annexin V Alexa Fluor® 488 & Propidium Iodide	1 kit
A10789	Tali® Cell Cycle Kit - Propidium Iodide	1 kit

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Cell Cycle Histogram:

Zooming in on a region of the histogram is possible by right clicking the image, selecting magnify, followed by click and dragging a bracketed region to be magnified. Magnify is reversed with the Unmagnify selection.

Gating placement on a sub-set of cells is possible by first creating a gate. Within the Gating tab:
1. Select "Create Marker"
2. Left click on histogram to place gate
3. Left click to adjust gate width and location
4. Right click on gate then choose "convert marker to gate"
5. Confirm options and select "ok"
6. In "Current Gate" dropdown, select gate of interest

Data table will be updated to show only cells within the gate.

Image Field Array:

Zooming on the cell fields is possible by right clicking the image, selecting magnify, followed by click and dragging a boxed region to be magnified. Magnify is reversed with the Unmagnify selection.

Applying the gate created in the histogram is executed by selecting the gate in the "Current Gate" dropdown within the Gating tab.

Cell Data Table:

Click table to make the scroll bar appear on the right side.

If you are interested in using more features FCS Express 5 Image Research offers, their website provides a list of tutorials and a copy of their manual. Webinars are also available.

http://www.denovosoftware.com/site/manual/index.html?tutorials.htm

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