10/29/2013

Instrument settings
Sheath fluid MQ
Nozzle 120 micron
1 micron beads (Invitrogen FluoSpheres). Pure stock was diluted 100 times in 1 ml MQ; we then added 100 ul of diluted stock in 1 ml of sample
Green channel in linear mode
Config file: Thaps_Nucleus3.cfg
Low Pressure - Flow rate and set to ~ 30 ul / min

Pure SYBRGreen stock was diluted 100 times in MQ; we then added 20 ul of diluted stock in 2 ml of sample

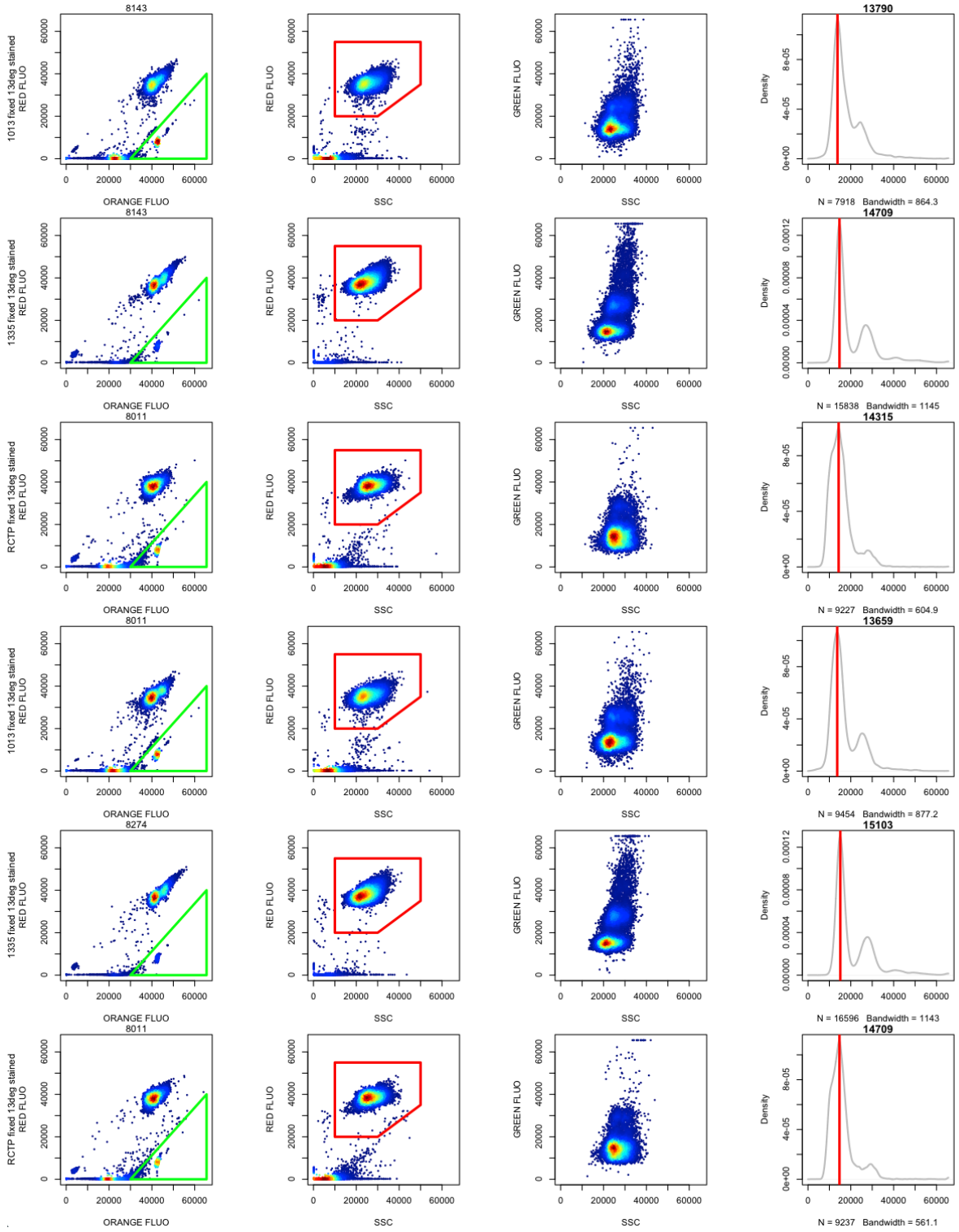
Cultures
RCTP (Italian Thaps)
1013 (Whales Thaps)
1335 (NY Thaps, reference)

The three cultures were grown either acclimated to Light:Dark cycle in the 13 degC incubator -> SYNCHRONIZED culture
Samples were collected around 2 pm so synchronized cells still start to divide, therefore some cells should be expected to be in G2 phase.
Based on the cell concentration of 10/24/13 experiment, we decided to dilute 3 times the cultures in the 20 degC incubator in F/2 medium (100 ul in 200 ul F/2 medium)

Experiment
Start at 2 pm
Volume analyzed for each sample (microliter):
0001.fcs - 36.17
0002.fcs - 76.30
0003.fcs - 80.84
0004.fcs - 48.66
0005.fcs - 37.98
0006.fcs - 56.54

Sample LOG

Plots STAINED SAMPLES
First column, cytograms showing the gate used to cluster the beads (log amplification). Mode of the Beads chlorophyll signal is indicated on the top side of the cytogram
Second column, cytograms showing the gate used to cluster THAPS (log amplification)
Third column, Green fluorescence of Thaps (linear amplification)
Fourth column, Green Fluorescence distribution in Thaps, with red line indicating the mode of the distribution. Value is indicated on the top side of the cytogram


8143
1013 fixed 13deg stained RED FLUO
ORANGE FLUO
RED FLUO
SSC
GREEN FLUO
13790
Density
N = 7918 Bandwidth = 864.3
8143
1335 fixed 13deg stained RED FLUO
14709
N = 15838 Bandwidth = 1145
8011
RCTP fixed 13deg stained RED FLUO
14315
N = 9227 Bandwidth = 604.9
8011
1013 fixed 13deg stained RED FLUO
13659
N = 9454 Bandwidth = 877.2
8274
1335 fixed 13deg stained RED FLUO
15103
N = 16596 Bandwidth = 1143
8011
RCTP fixed 13deg stained RED FLUO
14709
N = 9237 Bandwidth = 561.1