

6/20/05

Containing data

Summarized in

Jan 05 Summary  
of Experiments

## Summary of this packet

These are experiments that were <sup>done</sup> as per instruction by Dr Raveché to repeat the key experiment. My recollection is that they were performed, at least at first, by Howell, Azzam, Lenarczyk and Bishayee. I recognize Bishayee's handwriting on page B007365 of Exp 1's colony <sup>count</sup> ~~count~~ <sup>triplicate</sup> ~~count~~ (for all these experiments)

I averaged the colony counts and calc. std deviations. Then I calculated the ratio of the std deviation  $\div$  square root of the mean for each triplicate. According to Dr. Mossimann, if the data are normally distributed (which they should be), the std deviation should be equal to or greater than the square root of the mean. Since the results seemed low for exp. 1, I did a t-test (see Excel sheet) to compare the <sup>14</sup> ~~10~~ samples in exp. 1 with <sup>14</sup> ~~10~~ similar samples in Exps 2 and 3. The 2 arrays thus obtained are significantly different:  $p = 0.0065$ .  $\Xi$  As a control, I compared similar <sup>colony</sup> data from experiments 2 and 3. The 2 arrays are not different  $p = 0.843$ . I conclude that the colony counts in experiment 1 suggest the possibility of fabrication - the results are too good. However, since the experiment itself did not show a bystander effect, <sup>the result</sup> ~~it~~ is curious. ~~How~~

After experiment 1, ~~the results from~~ Howell appears to play a dominant role in experiments 2-7. Experiment 7 is incomplete and does not appear to have been recorded in the radioactivity log.

~~et~~ Conclusion: The 6 experiments for which there are results do not show evidence for a bystander effect. The colony counts in experiment 1 which are in Bishayee's handwriting show too small variances. In experiments 2-6, the colony counts are consistent with normal distribution (no indication of fabrication)

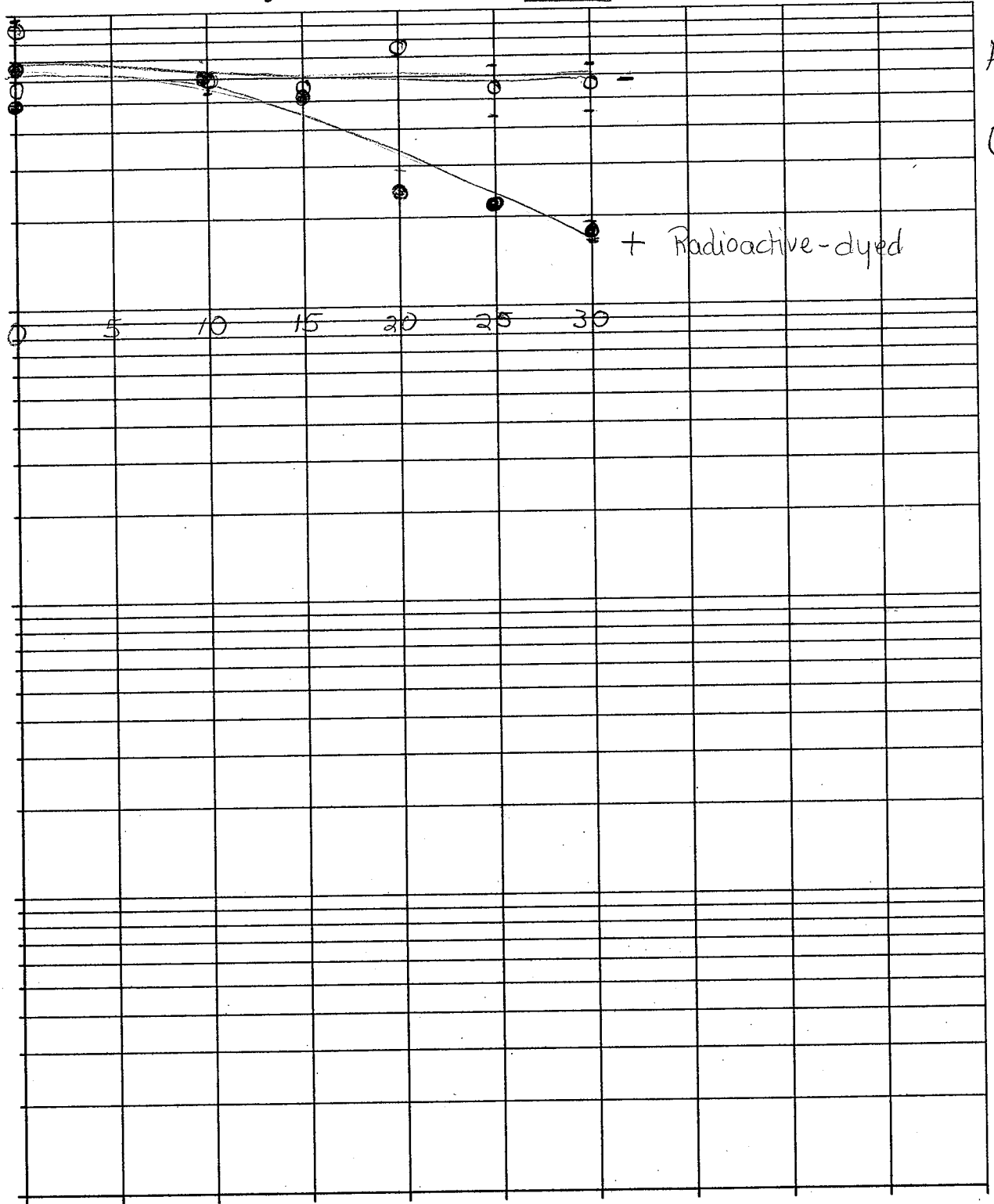
6/20/05

Exp 14/12/01

colony counts 5/7/01

B007365

	$\bar{x}$	SD	$SD/\sqrt{x}$	$\bar{x}$	SD	$SD/\sqrt{x}$
0	1.2	56.1 ± 0.89	0.12	1.2	48.3 ± 1.15	0.17
0	2.2	89.3 ± 6.66	0.705	2.2	65.3 ± 2.08	0.26
10	3.2	57.7 ± 2.52	0.332	3.2	60.7 ± 9.45	1.21
15	4.2	55.3 ± 2.31	0.311	4.2	51.0 ± 2.0	0.28
20	5.2	75.0 ± 2.65	0.306	5.3	243.0 ± 4.58	0.29
25	6.2	53.0 ± 11.53	1.58	6.3	225.3 ± 14.57	0.97
30	7.2	55.0 ± 9.54	1.31	7.3	178.7 ± 11.06	0.83



Av  $SD/\sqrt{x}$

0.62 ±

0.48



Recount of 4/17/2001 tubes  
w/ standard.

USER: 6 ID:H3 HOWELL      PRESET TIME: 1.00      TUE 17 APR 2001 14:06  
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N      RS232:N  
 H#: 1 AOC:N GCF:N RCM:N  
 CHANNEL 1-LL: 0 UL: 400 ZSIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 DATA CALC: CPM, UNKNOWN REPLICATES: 1      NORM FACTOR: 1.00000  
 HALF LIFE(DAYS):N

SAM	POS	CH	CPM	ZSIG%	TIME	EL TIME	AVG H#	ERR
1	**	1	12.00	57.74	1.00	1.42	81.0	
2	**	2	6.00	81.65	1.00	3.00	81.0	} 1M
3	**	3	9.00	66.67	1.00	4.57	82.0	
4	**	4	13.00	55.47	1.00	6.20	83.0	
5	**	5	11.00	60.30	1.00	7.77	80.0	} 2M
6	**	6	11.00	60.30	1.00	9.33	82.0	
7	**	7	241886.66	1.05	0.15	10.05	82.0	} 3M
8	**	8	243799.98	1.05	0.15	10.77	82.0	
9	**	9	235800.00	1.30	0.10	11.48	83.0	
10	**	10	360873.31	0.86	0.15	12.21	81.0	} 4M
11	**	11	359500.00	1.05	0.10	12.93	82.0	
12	**	12	371426.66	0.85	0.15	13.66	82.0	} 5M
13	**	13	507226.66	0.73	0.15	14.39	82.0	
14	**	14	507733.31	0.72	0.15	15.14	83.0	
15	**	15	483893.31	0.74	0.15	15.88	83.0	} 6M
16	**	16	605633.31	0.66	0.15	16.63	83.0	
17	**	17	587660.00	0.67	0.15	17.37	83.0	} 7M
18	**	18	625806.62	0.65	0.15	18.13	83.0	
19	**	1	740746.62	0.60	0.15	18.93	82.0	
20	**	2	759946.62	0.59	0.15	19.70	80.0	} 7M
21	**	3	725860.00	0.74	0.10	20.46	81.0	

USER: 6 ID:H3 HOWELL      PRESET TIME: 1.00      TUE 17 APR 2001 14:27  
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N      RS232:N  
 H#: 1 AQC:N QCF:N RCM:N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 DATA CALC: CPM, UNKNOWN REPLICATES: 1      NORM FACTOR: 1.00000  
 HALF LIFE(DAYS):N

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	**	1	13.00	55.47	1.00	1.42	79.0	
2	**	2	5.00	89.44	1.00	3.00	76.0	} 1C
3	**	3	9.00	66.67	1.00	4.58	78.0	
4	**	4	17.00	48.51	1.00	6.20	77.0	
5	**	5	10.00	63.25	1.00	7.77	76.0	} 2C
6	**	6	6.00	81.65	1.00	9.40	80.0	
7	**	7	3985.00	3.17	1.00	10.97	81.0	} 3C
8	**	8	4039.00	3.15	1.00	12.54	79.0	
9	**	9	4630.00	2.94	1.00	14.17	80.0	
10	**	10	8042.00	2.23	1.00	15.73	79.0	} 4C
11	**	11	7578.00	2.30	1.00	17.31	80.0	
12	**	12	6.00	81.65	1.00	18.88	80.0	} 5C
13	**	13	15327.14	1.93	0.70	20.19	84.0	
14	**	14	7156.00	2.36	1.00	21.80	79.0	} 6C
15	**	15	7239.00	2.35	1.00	23.43	78.0	
16	**	16	9471.00	2.06	1.00	25.01	80.0	} 7C
17	**	17	13684.00	1.97	0.75	26.32	85.0	
18	**	18	8792.00	2.13	1.00	27.89	78.0	} 7C
19	**	1	11631.11	1.95	0.90	29.41	78.0	
20	**	2	15265.71	1.93	0.70	30.67	81.0	
21	**	3	13576.00	1.98	0.75	31.98	81.0	} 7C
22	**	4	29734.29	1.96	0.35	32.93	-1.0	

## V79 COLONY FORMING ASSAY FOLLOWING FACS

**Experiment Name:** Cell separation by FACS and SF (<sup>3</sup>HTdR cluster, 50% labeling, five <sup>3</sup>HTdR conc.)

**Exp.#:** 1

**Investigator:** Roger Howell

**Date:** 4/12/2001

EAA

1. Set the rocker-roller at 37°C incubator with 5% CO<sub>2</sub>, set the Coulter Counter, wash cells (from two 80-90% confluent 175 cm<sup>2</sup> flasks, subcultured days before) with PBS, trypsinize cells, each resuspend in 7 ml MEMB, pool, pass five times through 5 or 10 cc syringe with 21 gauge needle, perform cell count by transferring 100 ul in Coulter cup containing 20 ml isotone (Coulter balanced electrolyte solution)
2. Dilute to ~2,000,000 cells/ml in MEMB [Actual count : 2.7 million cells/ml] ✓
3. Transfer 1 ml of cell suspension into two sets of tubes (7 tubes per set; Falcon plastic test tube, 17x100 mm)
4. Keep the tubes in the roller for 3-4 h at 37°C, 5% CO<sub>2</sub> **Date/Time:** 5:30pm EAA
5. Prepare MEMB containing radioactivity in hood  

$$240 \mu\text{l } ^3\text{HTdR (Stock : } 1 \mu\text{Ci}/\mu\text{l on } 2/15/2001) + 3.76 \text{ ml MEMB}$$
6. After 3-4 h, remove first set of tubes from roller and add MEMB with or without radioactivity according to Table below. **Date/Time:** 8:30pm EAA

Tube #	<sup>3</sup> HTdR uCi/ml	Cells in MEMB (ml)	MEMB (ml)	MEMB+ <sup>3</sup> HTdR 60uCi/ml (ml)	CFDA in PBS (1 uM) (ml)
1	0	1.0	1.0	0	2
2	0	1.0	1.0	0	2
3	10	1.0	0.667	0.333	2
4	15	1.0	0.5	0.5	2
5	20	1.0	0.334	0.666	2
6	25	1.0	0.167	0.833	2
7	30	1.0	0	1	2

7. Add 1 ml of MEMB ↑  
for remaining 7 tubes
↑  
unlabeled cells
**Date/Time:** 8:40pm EAA

- 8. Next day, while test tubes are in roller label tubes (13 X 100 mm VWR glass test tube)
- 9. After ~14 h incubation period, remove tubes and centrifuge at 2000 rpm at 4°C for 10 min (precooled centrifuge).

Date/Time: 9:55 am

EAA

- 10. Remove buckets from centrifuge and carefully remove 150 µl of supernatant and place in prelabeled tubes. *Aliquot 25 µl in triplicate for radioactivity counting*
- 11. Decant supernatant, click tubes, vortex, resuspend in 10 ml wash MEMA
- 12. Centrifuge tubes for 10 min at 2000 rpm, 4°C
- 13. Decant supernatant, click tubes, vortex, resuspend in 10 ml wash MEMA
- 14. Centrifuge tubes for 10 min at 2000 rpm, 4°C
- 15. Decant supernatant, click tubes, vortex, resuspend in 10 ml wash MEMA
- 16. Centrifuge tubes for 10 min at 2000 rpm, 4°C
- 17. Decant supernatant, click tubes, vortex
- 18. Add 8 ml of PBS in each tube, vortex and transfer the content to 15-ml plastic centrifuge tube
- 19. Centrifuge tubes for 10 min at 2000 rpm, 4°C
- 20. Decant supernatant, click tubes, vortex
- 21. Add 2 ml of 1 µM CFDA in prewarmed PBS as per the Table and PBS in the remaining tubes.

~~21. Add 2 ml of 1 µM CFDA in prewarmed PBS as per the Table and PBS in the remaining tubes.~~

*stock*  
~~10 µM CFDA~~ 90 µM DMSO (B) → (A)  
 10 µM stock + 9.99 ml PBS → 10 µM  
 2 ml of 10 µM + 18 ml PBS → 1 µM CFDA

- 22. Incubate all tubes at 37°C for 15 min.
- 23. Centrifuge tubes for 10 min at 2000 rpm, 4°C
- 24. Decant supernatant, click tubes, vortex, add 2 ml prewarmed MEMA
- 25. Incubate all tubes at 37°C for 30 min.
- 26. Centrifuge and decant the supernatant, suspend in 5 ml MEMA
- 27. Follow steps 11-24 for second set of tubes
- 28. Transfer the content of one tube from one set to the corresponding tube of another set
- 29. Centrifuge, decant the supernatant
- 30. Transfer the cell suspension in polypropylene microcentrifuge tubes with attached caps (Helena Plastics, 400 ul) using 200 ul pipet tips
- 31. Again add 200 ul MEMA, resuspend and transfer the cell suspensions in the same polypropylene microcentrifuge tubes (Total volume ~400 ul)
- 32. Centrifuge tubes for 5 min at 1000 rpm, 4°C

Date/Time: 04/13/00; 3-30 p.m.

EAA

- 30. Transfer tubes at 10°C for 72 h.
- 33. After 72 h, carefully remove the supernatant from the top, resuspend pellet in 200 ul wash MEMA and transfer the content to ~~eight~~ <sup>review</sup> 15 ml tubes containing 10 ml PBS by using pasteur pipet

Date/Time: 04/16/01; 2-45 p.m.

- 34. Again add 200 ul PBS in microcentrifuge tubes, resuspend and transfer the cell suspensions

EAA



in 15 ml tubes

35. Centrifuge the tubes for 10 min at 2000 rpm, 4°C (*precooled centrifuge*)
36. Decant supernatant, click tubes, vortex, pooled cells from corresponding tubes, centrifuge, decant the supernatant, resuspend in 2 ml PBS with, syringe and transfer aliquots for cell count (100 ul) and radioactivity count (50 ul)
37. Centrifuge, decant, resuspend in 1 ml PBS for each tube and transfer ~1ml in Falcon 12x75 mm polystyrene 6 ml tube, wrap the tubes with aluminium foil, put in ice and transfer for FACS study.
38. During sorting, collect both dye-positive and dye-negative cells in VWR 12x75 mm glass tube (pre-cooled in ice) containing 1 ml PBS with 100 U penicillin and 100 µg streptomycin (add 20 µl Pen-Strep from the commercial stock in 1 ml PBS to get the desired concentrations).
39. Transfer cells in PBS in 15-ml plastic centrifuge tube, add 7 ml of PBS, and centrifuge
40. Decant, vortex, resuspend in 1 ml of PBS, and transfer 100 µl for cell count
41. Transfer 300 µl in Falcon 12x75 mm polystyrene 6 ml tube for FACS analysis to check the purity of the sorted cells.
42. Dilute remaining cells (three 10-fold dilution by transferring 0.5 ml cells to 4.5 ml MEMA)
43. Plate required number of cells (200, 2000 or 20,000) in Falcon 60 mm tissue culture dish (in 4 ml total volume of MEMA).
44. Count colonies following a week.

Colony Counts - see attached sheet

Colony Counts Exp. †

05/07/01

1.2<sup>-</sup> 57, 56, 55  
 2.2<sup>-</sup> ~~58~~, 85, 86, 97  
 3.2<sup>-</sup> 60, 55, 58  
 4.2<sup>-</sup> 58, 54, 54  
 5.2<sup>-</sup> 77, 72, 70  
 6.2<sup>-</sup> 65, 42, 52  
 7.2<sup>-</sup> 54, 46, 65

1.2<sup>+</sup> 49, 49, 47  
 2.2<sup>+</sup> 66, 63, 67  
 3.2<sup>+</sup> 50, 64, 68  
 4.2<sup>+</sup> 51, 53, 49  
 5.3<sup>+</sup> 248, 239, 242  
 6.3<sup>+</sup> 210, 239, 227  
 7.3<sup>+</sup> 167, 180, 189

# Preparation of Cell Tracker Dye Preparation

10ml  $\rightarrow$  100ml  $\rightarrow$  1ml  $\rightarrow$   
10                    10                    10

Stock = 10mM

$$S_1 V_1 = S_2 V_2$$

$$10 \mu\text{M} \times 10 \text{ ml} = 10000 \times V_2$$

$$V_2 = \frac{10 \times 10}{10000} = 10 \mu\text{l}$$

Take 10  $\mu\text{l}$  10mM + 9.99  $\rightarrow$  10.00 ml 10  $\mu\text{M}$

Take 2 ml 10  $\mu\text{M}$  + 18 ml  $\rightarrow$  20.00 ml 1  $\mu\text{M}$

collar count before sorting

04/16/01

MS = 500  $\mu$ l ; Background = 3, 1, 2, 1

Tube #

Count

1	5953, 5976, 5793
2	7161, 7069, <del>7530</del> , <del>7409</del> , 7125
3	<del>5632</del> , 6363, <del>5969</del> , 6625, 6434
4	6533, <del>5999</del> , 6834, 6663
5	<del>5751</del> , <del>5472</del> , 5070, 5248, 5268
6	6514, 6804, 6550
7	5702, <del>6321</del> , 5983, 5957

4/17/2001 10:20am  
Ruff EPA

PAGE: 1

USER: 6 ID:H3 HOWELL PRESET TIME: 1.00 TUE 17 APR 2001 10:20  
SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N  
H#: 1 ADC:N DCF:N RCM:N  
CHANNEL 1-LL: 0 UL: 400 ZSIGMA: 2.00 BKG SUB: 0.00 BKG ZSIG: 0.00 LSR: 0  
DATA CALC: CPM, UNKNOWN REPLICATES: 1 NORM FACTOR: 0 1.00000  
HALF LIFE(DAYS):N

SAM	POS	CH	CPM	ZSIG%	TIME	EL TIME	AVG H#	ERR
1	**	1	17.00	48.51	1.00	1.42	81.0	
2	**	2	11.00	60.30	1.00	3.00	83.0	} 1M
3	**	3	10.00	63.25	1.00	4.58	83.0	
4	**	4	9.00	66.67	1.00	6.15	84.0	} 2M
5	**	5	6.00	81.65	1.00	7.77	80.0	
6	**	6	6.00	81.65	1.00	9.39	81.0	
7	**	7	241433.33	1.05	0.15	10.11	82.0	} 3M
8	**	8	242666.66	1.05	0.15	10.82	81.0	
9	**	9	238093.33	1.06	0.15	11.53	82.0	
10	**	10	361453.31	0.86	0.15	12.27	82.0	} 4M
11	**	11	358440.00	0.86	0.15	12.99	82.0	
12	**	12	367210.00	1.04	0.10	13.72	81.0	} 5M
13	**	13	506373.31	0.73	0.15	14.45	82.0	
14	**	14	514099.97	0.72	0.15	15.19	83.0	
15	**	15	480293.31	0.75	0.15	15.93	83.0	} 6M
16	**	16	604380.00	0.66	0.15	16.68	81.0	
17	**	17	583420.00	0.68	0.15	17.43	82.0	} 7M
18	**	18	629933.31	0.65	0.15	18.18	82.0	
19	**	1	747746.62	0.60	0.15	18.99	82.0	
20	**	2	756573.31	0.59	0.15	19.75	80.0	
21	**	3	731986.62	0.60	0.15	20.51	80.0	

L#: 6 ID:H3 HOWELL      PRESET TIME: 1.00      TUE 17 APR 2001 10:41  
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N      RS232:N  
 H#: 1 AQC:N QCF:N RCM:N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 DATA CALC: CPM, UNKNOWN REPLICATES: 1      NORM FACTOR: 0 1.00000  
 HALF LIFE(DAYS):N

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	**	1	9.00	66.67	1.00	1.47	78.0	
2	**	2	13.00	55.47	1.00	3.04	77.0	
3	**	3	10.00	63.25	1.00	4.61	78.0	
4	**	4	11.00	60.30	1.00	6.18	79.0	
5	**	5	5.00	89.44	1.00	7.80	77.0	
6	**	6	6.00	81.65	1.00	9.37	82.0	
7	**	7	4046.00	3.14	1.00	10.94	80.0	
8	**	8	4123.00	3.11	1.00	12.56	79.0	
9	**	9	4610.00	2.95	1.00	14.13	80.0	
10	**	10	8120.00	2.22	1.00	15.70	82.0	
11	**	11	7767.00	2.27	1.00	17.27	82.0	
12	**	12	6.00	81.65	1.00	18.83	79.0	
13	**	13	15536.92	1.99	0.65	20.04	85.0	
14	**	14	7056.00	2.38	1.00	21.67	79.0	
15	**	15	7202.00	2.36	1.00	23.23	78.0	
16	**	16	8908.00	2.12	1.00	24.82	78.0	
17	**	17	13702.67	1.97	0.75	26.13	84.0	
18	**	18	7474.00	2.31	1.00	27.70	79.0	
19	**	1	11805.88	2.00	0.85	29.17	79.0	
20	**	2	15165.71	1.94	0.70	30.44	81.0	
21	**	3	14108.00	1.94	0.75	31.76	81.0	

Handwritten annotations:
 

- 1B (next to row 1)
- 2B (next to row 2)
- 3B (next to row 3)
- 4B (next to row 4)
- 5B (next to row 5)
- 6B (next to row 6)
- 7B (next to row 7)
- 8B (next to row 8)
- 9B (next to row 9)
- 4B (next to row 11)
- 5B (next to row 14)
- 6B (next to row 17)
- 7B (next to row 20)

 ← missed pipet  
 ← potential double

US : 6 ID:H3 HOWELL      PRESET TIME: 1.00      TUE 17 APR 2001 11:13  
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N      RS232:N  
 H#: 1 AOC:N QCF:N RCM:N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 DATA CALC: CPM, UNKNOWN REPLICATES: 1      NORM FACTOR: 1.00000  
 HALF LIFE(DAYS):N

BAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	29-	1	12.00	57.74	1.00	1.47	83.0	
2	29-	2	9.00	66.67	1.00	3.05	81.0	
3	29-	3	6.00	81.65	1.00	4.62	79.0	
4	29-	4	8.00	70.71	1.00	6.18	79.0	
5	29-	5	13.00	55.47	1.00	7.74	82.0	
6	29-	6	6.00	81.65	1.00	9.32	72.0	
19	**	1	6.00	81.65	1.00	11.06	93.0	
20	**	2	11.00	60.30	1.00	12.83	134.0	
21	**	3	10.00	63.25	1.00	14.45	102.0	
22	**	4	47.00	29.17	1.00	16.08	107.0	
23	**	5	24.00	40.82	1.00	17.70	93.0	
24	**	6	8.00	70.71	1.00	19.32	106.0	
25	**	7	11.00	60.30	1.00	20.94	71.0	

*Wipe tests  
of F-451b*

Coulter count after sorting

4/16/01

MS = 500  $\mu$ l ; background = 12, 3, 1, 1

Dye(-)ve cells

Tubett	Coulter count	cell conc. (#/ml)	Dilution plated/cells plated	Vol. plated ( $\mu$ l)
1	841, 834, 858	336,400	1:1000 (200)	0.59
2	566, 563, 524	220,400	1:1000 (200)	0.90
3	799, 800, 861	328,000	1:1000 (200)	0.61
4	599, 588, <del>628</del> , 592	237,200	1:1000 (200) 1:100 (2000)	0.84 0.84
5	593, 584, 578	234,000	1:1000 (200) 1:100 (2000)	0.855 0.855
6	668, 721, 724	281,733	1:1000 (200) 1:100 (2000) 1:10 (20000)	0.710 0.710 0.710
7	582, 603, 625	241,333	1:1000 (200) 1:100 (2000) 1:10 (20000)	0.830 0.830 0.830

Dye (+)ve cells

1	<del>778</del> , 633, 636, 678	259,600	1:1000 (200)	0.77
2	595, 621, 641	247,600	1:1000 (200)	0.808
3	587, 575, <del>577</del> 602	235,200	1:1000 (200) 1:100 (2000)	0.85 0.850
4	<del>862</del> , 537, 618, 573	230,400	1:1000 (200) 1:100 (2000) 1:10 (20000)	0.870 0.870 0.870
5	612, 655, 579	246,133	<del>1:1000 (200)</del> 1:100 (2000) 1:10 (2000)	<del>0.813</del> 0.813 0.813
6	551, 571, 525	219,600	1:100 (2000)	0.910
7	494, 445, 491	190,666	1:10 (20,000) 1:100 (2000) 1:10 (20000)	0.910 1.05 1.05



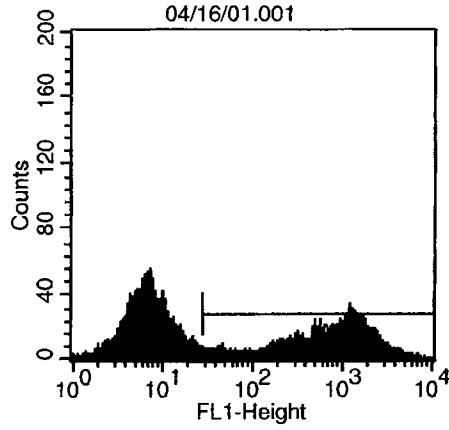
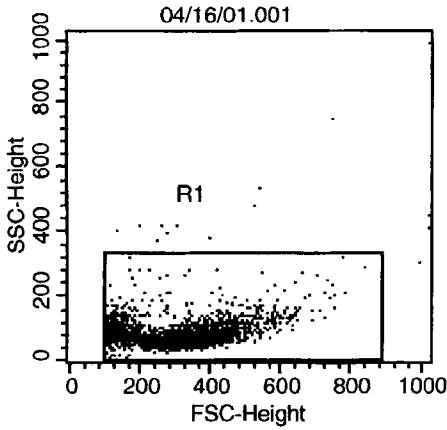
# SORT

DATE: 4/16/01

TIME: 4:45-

INVESTIGATOR:

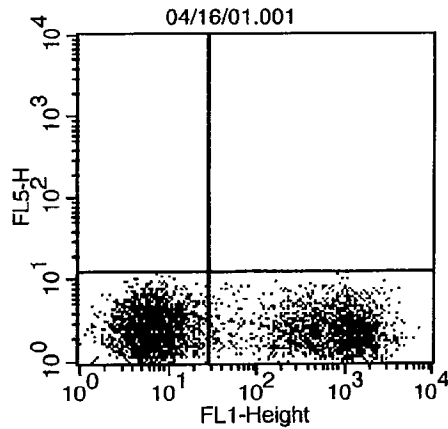
	LEFT SORT	RIGHT SORT	ABORT	FREQUENCY
	-	+		
TUBE 1	736779	500150	.06	1.5
TUBE 2	676560	448567	.01	2.0
TUBE 3	655430	490333	.10	2.2
TUBE 4	500985	512106	.10	1.8
TUBE 5	138970 <u>445121</u> <del>584091</del>	98045 <u>308050</u> 406095	.05	1.5
TUBE 6	649565	370467	.09	1.9
TUBE 7	523472	393937	.05	1.5
TUBE 8				
TUBE 9				
TUBE 10				



Histogram Statistics

File: 04/16/01.001                      Log Data Units: Linear Values  
 Sample ID: control 1                    Patient ID:  
 Tube:                                        Panel:  
 Acquisition Date: 16-Apr-01            Gate: G1  
 Gated Events: 9959                      Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)

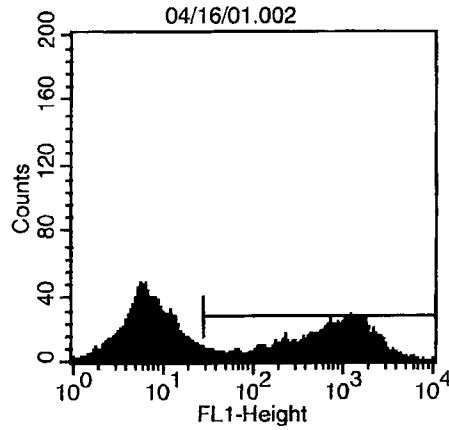
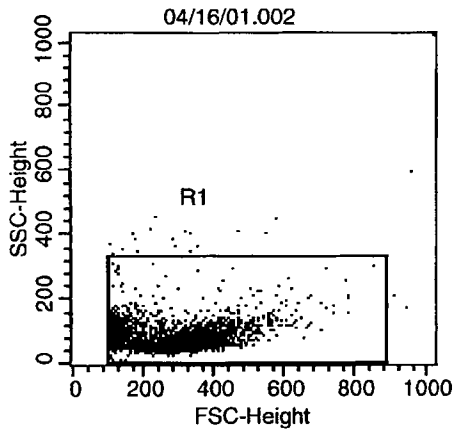
Marker	Left, Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median	Peak Ch
All	1, 9910	9959	100.00	99.59	447.79	52.30	168.37	14.99	7
M1	28, 9910	4487	45.05	44.87	984.11	622.11	87.30	798.63	1124



Quadrant Statistics

File: 04/16/01.001                      Log Data Units: Linear Values  
 Sample ID: control 1                    Patient ID:  
 Tube:                                        Panel:  
 Acquisition Date: 16-Apr-01            Gate: G1  
 Gated Events: 9959                      Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)    Y Parameter: FL5-H FL5-H (Log)  
 Quad Location: 29, 12

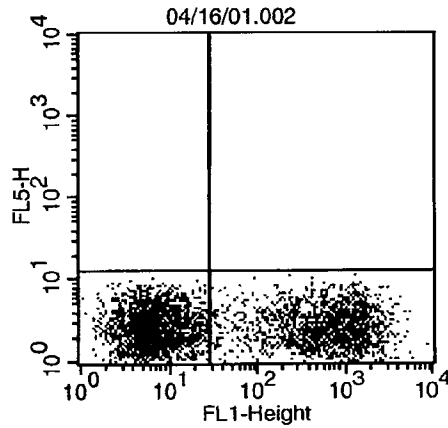
Quad	Events	% Gated	% Total	X Mean	X Geo Mean	Y Mean	Y Geo Mean
UL	0	0.00	0.00	***	***	***	***
UR	0	0.00	0.00	***	***	***	***
LL	5496	55.19	54.96	8.10	6.91	2.82	2.50
LR	4463	44.81	44.63	989.25	632.53	2.77	2.45



Histogram Statistics

File: 04/16/01.002                      Log Data Units: Linear Values  
 Sample ID: control 2                      Patient ID:  
 Tube:    Panel:  
 Acquisition Date: 16-Apr-01              Gate: G1  
 Gated Events: 9944                          Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)

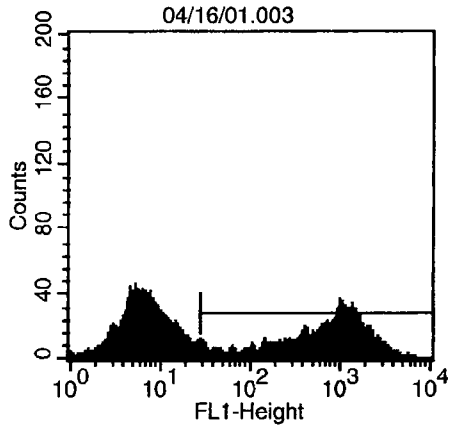
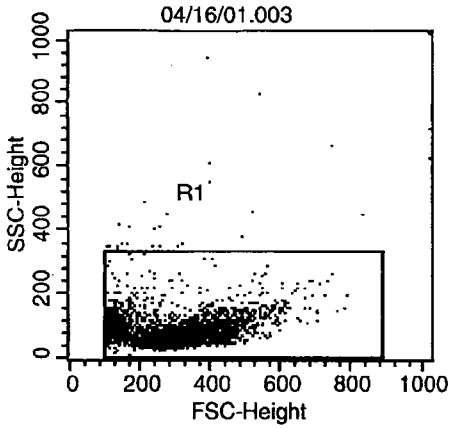
Marker	Left, Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median	Peak Ch
All	1, 9910	9944	100.00	99.44	436.41	51.82	167.66	16.55	5
M1	28, 9910	4534	45.60	45.34	947.48	589.27	87.93	749.89	1124



Quadrant Statistics

File: 04/16/01.002                      Log Data Units: Linear Values  
 Sample ID: control 2                      Patient ID:  
 Tube:    Panel:  
 Acquisition Date: 16-Apr-01              Gate: G1  
 Gated Events: 9944                          Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)      Y Parameter: FL5-H FL5-H (Log)  
 Quad Location: 29, 12

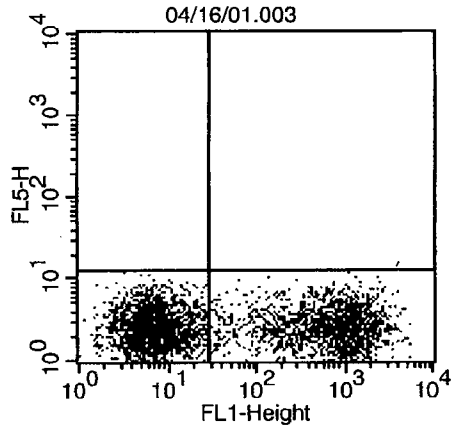
Quad	Events	% Gated	% Total	X Mean	X Geo Mean	Y Mean	Y Geo Mean
UL	0	0.00	0.00	***	***	***	***
UR	1	0.01	0.01	1321.58	1321.58	12.63	12.63
LL	5439	54.70	54.39	8.20	6.81	2.81	2.50
LR	4504	45.29	45.04	953.31	600.79	2.82	2.49



Histogram Statistics

File: 04/16/01.003                      Log Data Units: Linear Values  
 Sample ID: 3                              Patient ID:  
 Tube:                                        Panel:  
 Acquisition Date: 16-Apr-01            Gate: G1  
 Gated Events: 9914                      Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)

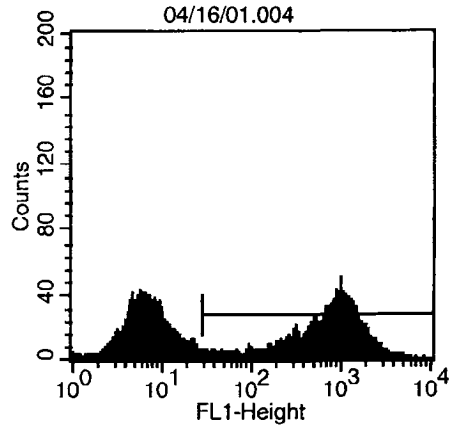
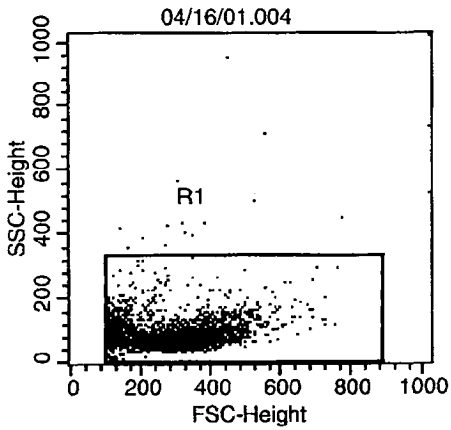
Marker	Left, Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median	Peak Ch
All	1, 9910	9914	100.00	99.14	457.28	58.75	155.19	19.63	5
M1	28, 9910	4712	47.53	47.12	953.06	627.20	80.67	827.88	930



Quadrant Statistics

File: 04/16/01.003                      Log Data Units: Linear Values  
 Sample ID: 3                              Patient ID:  
 Tube:                                        Panel:  
 Acquisition Date: 16-Apr-01            Gate: G1  
 Gated Events: 9914                      Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)    Y Parameter: FL5-H FL5-H (Log)  
 Quad Location: 29, 12

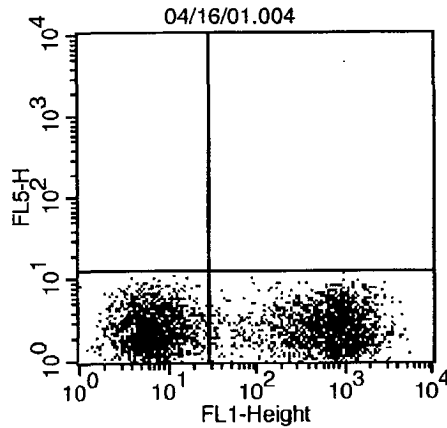
Quad	Events	% Gated	% Total	X Mean	X Geo Mean	Y Mean	Y Geo Mean
UL	0	0.00	0.00	***	***	***	***
UR	2	0.02	0.02	1290.70	634.94	13.22	13.22
LL	5235	52.80	52.35	8.33	6.94	2.80	2.48
LR	4677	47.18	46.77	959.44	641.06	2.78	2.48



Histogram Statistics

File: 04/16/01.004                      Log Data Units: Linear Values  
 Sample ID: 4                                Patient ID:  
 Tube:                                        Panel:  
 Acquisition Date: 16-Apr-01            Gate: G1  
 Gated Events: 9941                        Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)

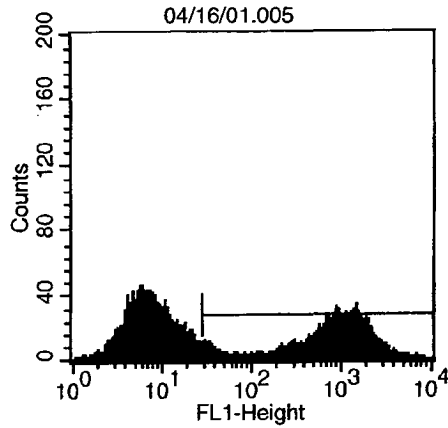
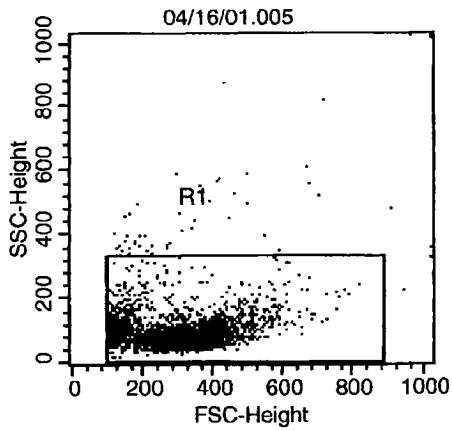
Marker	Left, Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median	Peak Ch
All	1, 9910	9941	100.00	99.41	463.84	75.41	139.78	107.46	905
M1	28, 9910	5317	53.49	53.17	860.30	611.91	77.80	756.67	905



Quadrant Statistics

File: 04/16/01.004                      Log Data Units: Linear Values  
 Sample ID: 4                                Patient ID:  
 Tube:                                        Panel:  
 Acquisition Date: 16-Apr-01            Gate: G1  
 Gated Events: 9941                        Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)    Y Parameter: FL5-H FL5-H (Log)  
 Quad Location: 29, 12

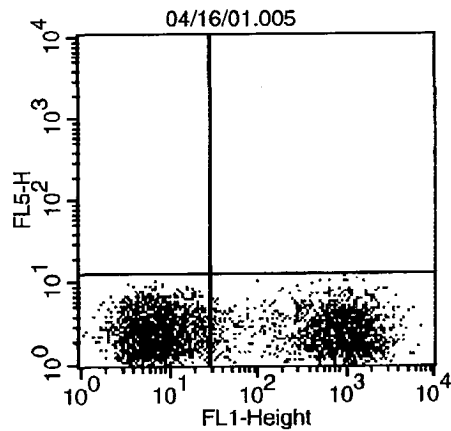
Quad	Events	% Gated	% Total	X Mean	X Geo Mean	Y Mean	Y Geo Mean
UL	0	0.00	0.00	***	***	***	***
UR	0	0.00	0.00	***	***	***	***
LL	4647	46.75	46.47	8.06	6.84	2.80	2.48
LR	5294	53.25	52.94	863.91	620.13	2.82	2.50



Histogram Statistics

File: 04/16/01.005                      Log Data Units: Linear Values  
 Sample ID: 5                              Patient ID:  
 Tube:                                      Panel:  
 Acquisition Date: 16-Apr-01            Gate: G1  
 Gated Events: 9858                      Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)

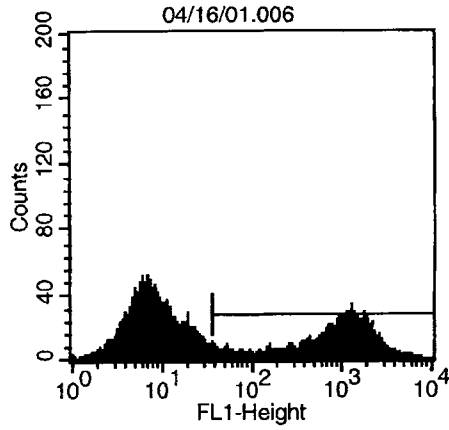
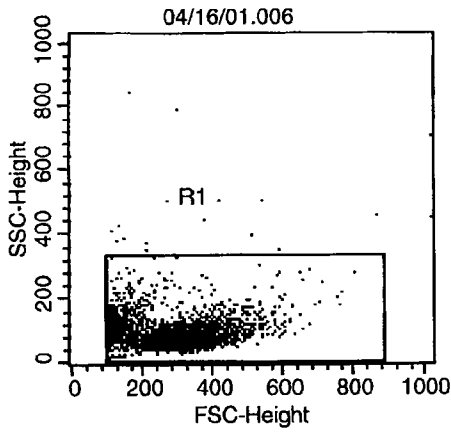
Marker	Left, Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median	Peak Ch
All	1, 9910	9858	100.00	98.58	476.98	57.61	156.73	17.62	5
M1	28, 9910	4496	45.61	44.96	1035.68	691.07	77.94	897.69	1298



Quadrant Statistics

File: 04/16/01.005                      Log Data Units: Linear Values  
 Sample ID: 5                              Patient ID:  
 Tube:                                      Panel:  
 Acquisition Date: 16-Apr-01            Gate: G1  
 Gated Events: 9858                      Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)    Y Parameter: FL5-H FL5-H (Log)  
 Quad Location: 29, 12

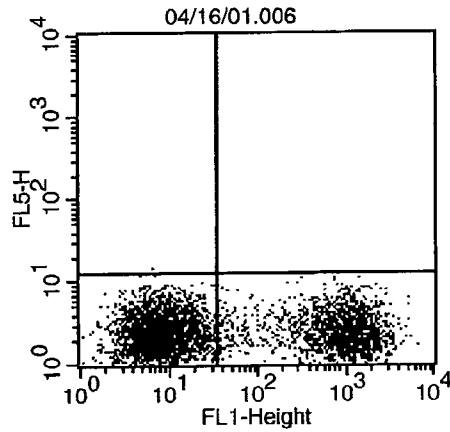
Quad	Events	% Gated	% Total	X Mean	X Geo Mean	Y Mean	Y Geo Mean
UL	0	0.00	0.00	***	***	***	***
UR	0	0.00	0.00	***	***	***	***
LL	5409	54.87	54.09	8.69	7.26	2.77	2.46
LR	4449	45.13	44.49	1046.33	714.78	2.77	2.46



Histogram Statistics

File: 04/16/01.006                      Log Data Units: Linear Values  
 Sample ID: 6                              Patient ID:  
 Tube:                                      Panel:  
 Acquisition Date: 16-Apr-01              Gate: G1  
 Gated Events: 9927                      Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)

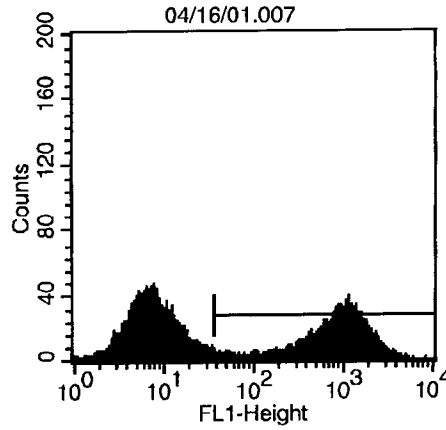
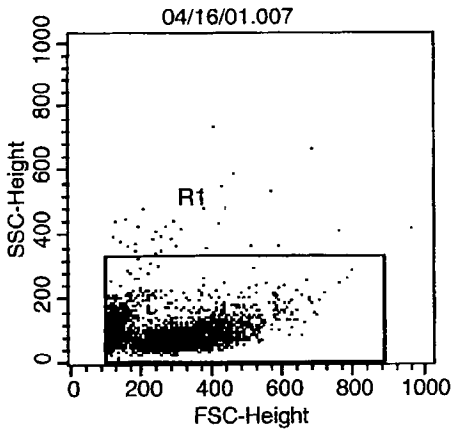
Marker	Left, Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median	Peak Ch
All	1, 9910	9927	100.00	99.27	429.28	46.38	170.63	14.46	5
M1	36, 9910	3898	39.27	38.98	1078.58	737.56	76.02	964.66	1175



Quadrant Statistics

File: 04/16/01.006                      Log Data Units: Linear Values  
 Sample ID: 6                              Patient ID:  
 Tube:                                      Panel:  
 Acquisition Date: 16-Apr-01              Gate: G1  
 Gated Events: 9927                      Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)      Y Parameter: FL5-H FL5-H (Log)  
 Quad Location: 35, 12

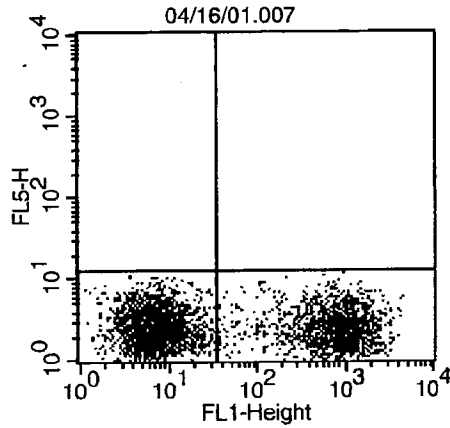
Quad	Events	% Gated	% Total	X Mean	X Geo Mean	Y Mean	Y Geo Mean
UL	3	0.03	0.03	9.19	8.56	13.04	13.02
UR	0	0.00	0.00	***	***	***	***
LL	6017	60.61	60.17	9.45	7.74	2.77	2.45
LR	3907	39.36	39.07	1076.17	732.43	2.80	2.49



Histogram Statistics

File: 04/16/01.007      Log Data Units: Linear Values  
 Sample ID: 7      Patient ID:  
 Tube:      Panel:  
 Acquisition Date: 16-Apr-01      Gate: G1  
 Gated Events: 9930      Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)

Marker	Left, Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median	Peak Ch
All	1, 9910	9930	100.00	99.30	433.40	56.63	151.62	17.08	7
M1	36, 9910	4440	44.71	44.40	958.38	711.49	71.33	850.53	1018

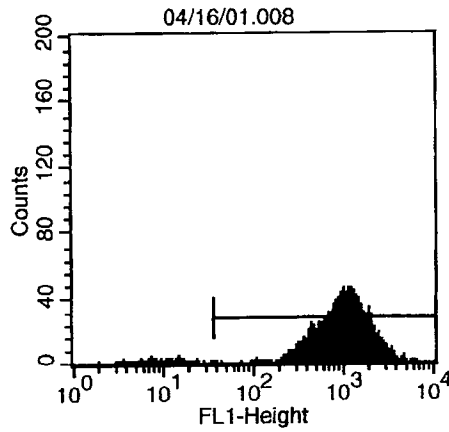
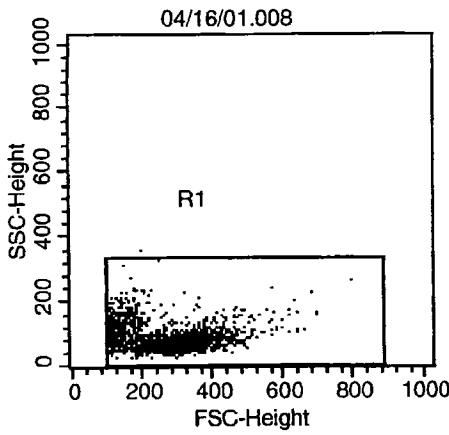


Quadrant Statistics

File: 04/16/01.007      Log Data Units: Linear Values  
 Sample ID: 7      Patient ID:  
 Tube:      Panel:  
 Acquisition Date: 16-Apr-01      Gate: G1  
 Gated Events: 9930      Total Events: 10000  
 X Parameter: FL1-H FL1-Height (Log)      Y Parameter: FL5-H FL5-H (Log)  
 Quad Location: 35, 12

Quad	Events	% Gated	% Total	X Mean	X Geo Mean	Y Mean	Y Geo Mean
UL	1	0.01	0.01	29.43	29.43	13.10	13.10
UR	0	0.00	0.00	***	***	***	***
LL	5487	55.26	54.87	8.82	7.31	2.79	2.47
LR	4442	44.73	44.42	957.96	710.53	2.77	2.46



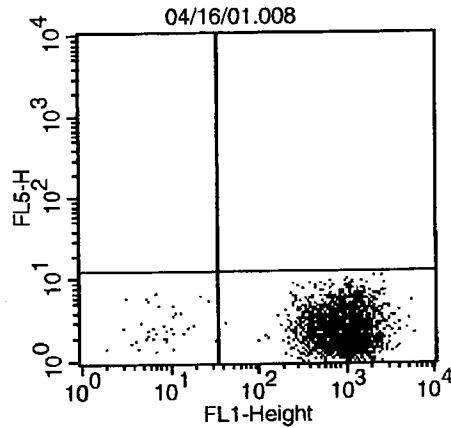


Histogram Statistics

File: 04/16/01.008  
 Sample ID: Positive sort  
 Tube:  
 Acquisition Date: 16-Apr-01  
 Gated Events: 5435  
 X Parameter: FL1-H FL1-Height (Log)

Log Data Units: Linear Values  
 Patient ID:  
 Panel:  
 Gate: G1  
 Total Events: 5445

Marker	Left, Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median	Peak Ch
All	1, 9910	5435	100.00	99.82	1035.25	821.97	61.16	922.24	913
M1	36, 9910	5332	98.10	97.92	1055.04	897.30	59.04	938.98	913



Quadrant Statistics

File: 04/16/01.008  
 Sample ID: Positive sort  
 Tube:  
 Acquisition Date: 16-Apr-01  
 Gated Events: 5435  
 X Parameter: FL1-H FL1-Height (Log)  
 Quad Location: 35, 12

Log Data Units: Linear Values  
 Patient ID:  
 Panel:  
 Gate: G1  
 Total Events: 5445  
 Y Parameter: FL5-H FL5-H (Log)

Quad	Events	% Gated	% Total	X Mean	X Geo Mean	Y Mean	Y Geo Mean
UL	0	0.00	0.00	***	***	***	***
UR	0	0.00	0.00	***	***	***	***
LL	103	1.90	1.89	10.63	8.78	3.18	2.82
LR	5332	98.10	97.92	1055.04	897.30	2.80	2.47

Wipe test Flow cytometer/Sorter

PAGE: 1

USER: 6 ID:H3 HOWELL      PRESET TIME: 1.00      THU 19 APR 2001 17:46  
SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N      RS232:N  
H#: 1 ABC:N BCF:N RCM:N  
CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
DATA CALC: CPM, UNKNOWN REPLICATES: 1      NORM FACTOR: 0 1.00000  
HALF LIFE(DAYS):N

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	**	1	51.00	28.01	1.00	1.44	77.0	
2	**	2	210.00	13.80	1.00	3.12	77.0	
3	**	3	51.00	28.01	1.00	4.70	80.0	
4	**	4	68.00	24.25	1.00	6.30	81.0	
5	**	5	52.00	27.74	1.00	7.94	79.0	
6	**	6	85.00	21.69	1.00	9.59	80.0	
7	**	7	37.00	32.88	1.00	11.23	76.0	
8	**	8	36.00	33.33	1.00	12.86	78.0	
9	**	9	16.00	50.00	1.00	14.48	75.0	
10	**	10	8.00	70.71	1.00	16.11	76.0	
11	**	11	29580.00	1.97	0.35	17.08	-1.0	

Sample from PACS

Background  
Standard (3H)