DFCI Flow Cytometry Facility General Information

as of June 1996

PHONE: 632-3179, after hours call 632-3139 to leave message

CONTACT:
- Peter Lopez
- Martina Gavin
- Michael Simone
- Darlene Koestner

LOCATION: Dana Farber Cancer Institute, Jimmy Fund Building, Rooms 311, 312, and 319

EQUIPMENT:
- 2 BECTON DICKINSON FACScans (5 parameter acquisition, cell cycle analysis)
- COULTER EPICS 753 (for calcium mobilization studies, 1-3 color analysis, and cell sorting, Autoclone)
- BECTON DICKINSON FACSVantage (for analysis of 1-5 colors and cell sorting, single cell/well sorting)

GENERAL POLICIES: All billing will be in 1/2 hour increments and will be rounded up to the next half hour. (40 mins is billed as 1 hour, 10 mins is billed as 1/2 hour)

The minimum time slot that can be reserved for immunofluorescence work is 1/2 hour. The minimum time for calcium studies, sorting or multiple laser analysis is 1 hour, due to set up time.

GENERAL SAMPLE INFO
- All samples should be in Falcon #2052 12x75mm tubes- other tubes may not work on our machines and will cause delays
- Samples should be at a density of 1-2x10E6 per ml for analysis, higher cell concentrations (2-5x10E6/ml) are preferred for cell sorting.
- Unfixed stained samples should be brought to the lab on ice.
- Minimum volume for analysis is 250ul. If cell number is limiting, maintain the minimum volume

The following scheduling guidelines were determined using samples at the nominal cell concentration:

- Immunofluorescence-
  - single color with pictures (with or without Propidium Iodide gating): 40-50 samples/hour maximum.
  - rapid screening (without print outs) please call first
  - two color immunofluorescence: 30-40/hour maximum
  - three color immunofluorescence: 20-30/hour maximum
○ 4-5 color immunofluorescence: please call first

• DNA content analysis-
  ○ Propidium Iodide cell cycle and ploidy determination: 20-30/hr
  ○ Propidium Iodide + BrDU: 20/hour
  ○ Propidium Iodide + Immunofluorescence: 15/hour
  ○ Hoechst cell cycle: 30/hour plus data analysis time
  ○ Apoptosis quantitation: 40/hour
  ○ Other DNA fluorochromes: 30/hour

• Indo-1 calcium studies: 4X10min. runs/hour maximum
• 2-3 laser work (4-5 color immunofluorescence, texas red, CY5, rhodamine) - please call first
• Cell sorting and single cell sorting - please call first

Cancellations must be made at least 24 hours in advance, or you will be charged for the time reserved.

Monday appointments must be cancelled before 10:00AM to avoid billing charges (call 632-3139 to leave message before 9:00AM)

The current rates at the facility are: $27.00/hour for DFCI staff ; $41.80/hour for non-DFCI staff

Dana Farber Cancer Institute staff will be given priority if a machine goes down or needs repair, or if an operator is out sick and we have to cancel work on one of the machine.

We will not analyze or sort infectious or radioactively labelled material. Please call us with any questions regarding your applications.

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