

# DFCI Flow Cytometry Facility General Information

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*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

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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
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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)

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

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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.

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

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