

Core Biology Facility Fall 2013 Newsletter

Molecular Biology Lab IACC 316

NEW! A BD FACSJazz cell sorter and a NEW Accuri C6 has been installed and validated. The cell sorter has 3 lasers (blue, red and violet) with 6 colors (3 blue, 1 red, and 2 violets)

List of Equipment:

- BD FACSJazz cell sorter
- 2 Accuri C6 Flow Cytometers
- 2 ABI 7500 Fast Real-Time PCR Machines
- ABI Veriti Thermocycler
- 2 ABI 2720 Thermocyclers
- Agilent 2100 Bioanalyzer (DNA, RNA, protein quantitation and quality control)
- GE Healthcare Storm 865 Imager (gel and immunoblot imaging, autoradiography)
- Nanodrop 2000
- DU530 UV/Vis spectrophotometer
- Axon 4000B Genepix Microarray Scanner
- Eppendorf 5417R Centrifuge
- Eppendorf 5430 centrifuge
- Allegra 25R table-top centrifuge
- Computer workstations (Flowjo, Prism)
- DNA/RNA/Protein gel Workstations

Fisher Replenishment system

Provides plastic consumables, Promega reagents for PCR, and growth media.

Service: Consultation on experimental design, data analysis, technical training, sample analysis, and collaboration. We are dedicated to help you reach your research goals!

Tissue Culture Lab IACC 354A&B

List of Equipment:

- 3 Biosafety Cabinets/Tissue Culture Hoods
- 3 CO₂ incubators
- Liquid Nitrogen cell storage system
- Leica DMIL inverted fluorescent microscope with a CCD digital color camera
- Nexcelom Cellometer Auto T4 Cell Counter
- Inverted microscope
- Bright field microscope

Media Components:

- We stock several kinds of media available for purchase in the CBF, including:
 - DMEM (high glucose)
 - McCoy's 5A
 - MEM alpha
 - RPMI 1640
 - Defined and characterized FBS
 - Trypsin, trypsin-EDTA, pen/strep, PBS, HBSS, and L-glutamine.

If we don't have it and you want- We'll get it! You just have to let us know!

Bioassay Lab IACC 354C

List of Equipment:

- Thermo Multiskan Spectrum Microplate Spectrophotometer
- Gemini EM Fluorescence Microplate Reader
- Rainin multichannel pipettes

Example Assays at CBF

- Apoptosis analysis
- Blue native gel electrophoresis
- Cell cycle analysis
- Cell sorting
- Cellular bioenergetics
- DNA damage and repair
- Enzyme assay
- Fluorescence microscopy
- Gene expression assay
- Genome size determination
- Immunophenotyping
- Mycoplasma test
- Western blot

Contact:

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