The OHSU Flow Cytometry Shared Resource (FCSR) has operated as a core resource for OHSU investigators since 1996 and provides advanced flow cytometry instrumentation, technical expertise and technical services.

Introduction

The Flow Cytometry Shared Resource (FCSR) personnel provide training in data interpretation, experiment design and routine instrument operation, offering investigators the cost-saving option of doing some of the work themselves. Resource personnel also support investigators by providing operator-assisted fluorescence-activated cell sorting, analytical flow cytometry and data analysis.

Services:

1. Quantitative measurement of fluorescent reporters to assess the distribution of specific molecules within cell populations.
2. Sorting to isolate purified cell populations based on detection of specific probes such as antibodies and fluorescent proteins.
3. Analysis of multiple characteristics such as relative cell size, antibody binding to cell surface or intracellular biomarkers, DNA and RNA content, and fluorescent protein expression.
4. Functional assays to measure apoptosis, enzyme activity or calcium flux.
5. Cells can be sorted into 5-15 mL conical tubes, Eppendorf tubes or into multi-well plates.
6. After acquisition of data, investigators will receive data files and/or data plots. In addition, for sorting experiments, investigators will receive sorted cells and an analysis of post-sort purity.
7. Researcher training for analytical instrument use

Equipment:

Richard Jones Hall:
- BD Symphony
- BD LSRII
- BD Canto
- Beckman Coulter Cytoflex S
- InFlux (Spock)
- InFlux (Kirk)
- Miltenyi AutoMACS
- Luminex 200
- CyTOF Helios

Knight Cancer Research Building:
- BD Fortessa
- BD Symphony A5
- BD Symphony S6 (sorter)
- BD ARIA Fusion (sorter)
- CyTEK Aurora

Operators:
Pamela Canaday
Matthew Schleisman
Reshma Purohit
Christina Metea

Director:
Phil Streeter

Location
Marquam Hill Campus
Richard Jones Hall Room 5380
3181 SW Sam Jackson Park Road,
Portland OR 97239
Phone: (503) 494-0661

South Waterfront
Knight Cancer Research Building, room 4161
2720 SW Moody Ave,
Portland, OR 97201
Phone: (503) 494-6145