

Flow Cytometry: Versiti-Blood Research Institute

Location: Versiti of Wisconsin-Blood Research Institute

Primary Contact:

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Blood Research Institute Flow Cytometry

<https://www.versiti.org/research/blood-research-institute/core-labs/flow-cytometry-core-lab>

Overview

The Flow Cytometry Core contains six Becton Dickinson cytometer systems:

BD LSRII Flow Cytometer

- Capable of 10 color and 12 parameter acquisition
- 4 laser system includes blue 488nm, red 640nm, yellow-green 561nm and UV 355nm
- BD HTS can be used on this instrument. Capable of reading 96 well and 384 well microtiter plates

BD LSRII Special Order System

- Capable of 12 color and 14 parameter acquisition
- 4 laser system includes blue 488nm, red 640nm, green 532nm and violet 405nm
- BD HTS can be used on this instrument. Capable of reading 96 well and 384 well microtiter plates

BD FACSCelesta Flow Cytometer

- Capable of 16 color and 17 parameter acquisition
- 4 laser system includes blue 488nm, red 633nm, green 561nm and violet 405nm.
- BD HTS already attached is capable of reading 96 well and 384 well microtiter plates.

BD FACSAria Cell Sorter

- Capable of 10 color and 12 parameter acquisition
- 4 laser system includes blue 488nm, red 633nm, green 532nm and violet 407nm

BD FACSMelody Cell Sorter

- Capable of 9 color and 12 parameter acquisition
- 3 laser system includes blue 488nm, red 640nm and violet 405nm

Accuri C6

- Capable of 4 color and 6 parameter acquisition
- 2 laser system includes blue 488nm and red 633nm

The core provides data analysis with the following software:

- FlowJo
- FCS Express
- FACSDiva
- CFlow Plus
- Analysis workstations are available as well as training for flow core users.

The Flow Core provides these services to all its investigators and outsider users as capacity permits. Instruments are reserved on a first come, first served basis with priority given to BRI Investigators. Any new users to the core wanting to use the analysis instruments are required to attend a free training session with the core technologist. All BD FACSAria Sorts are operator assisted and therefore must be scheduled at least 24 hours in advance. As a courtesy, we require 24 hours notice to cancel a sort, so that time can be made available to other users.

Equipment/Software	Accessibility
BD LSRII Flow Cytometer	Use is available only after training
BD LSRII Special Order System	Use is available only after training
BD FACSCelesta	Use is available only after training
BD FACSAria Cell Sorter	Facility technicians use on behalf of investigators
BD FACSMelody Cell Sorter	Use is available only after training
Accuri C6	Use is available only after training
FlowJo software	Available for open use
FCS Express software	Available for open use
FACSDiva software	Available for open use
CFlow Plus software	Available for open use

Hours:

- Sorting: Monday – Friday 8:00 am–4:30 pm
- Analysis: 24/7
- Melody Sorting 24/7
- Computers 24/7

Common users of the facility:

BRI flow core users and some MCW labs

Rate:

- Sorting \$52/hour
- LSR II \$27/hour
- Accuri \$10/hour
- Computer use is free