# BD LSR II

## STAFF IN CHARGE

Hélène FOHRER-TING, CICC
Estelle DEVEVRE, CICC

## TECHNICAL SPECIFICATIONS

**OPTICS**

- ★Fixed alignment lasers: 20-mW 488-nm, 25-mW 405-nm, 20-mW 635-nm
- ★Beam height is 15 ± 3-µm and beam width is 75 ± 15-µm
- ★High-performance, high dynamic range PMTs and red-sensitive PMTs with filters

**SOFTWARE**

- ★5-decade logarithmic display
- ★On line and off line compensation
- ★Width and Area measurements for cell doublet discrimination available for all fluorescence parameters
- ★Ratio measurements for intra-laser parameters (useful for calcium measurements)
- ★Time available correlated to any parameter for kinetic experiments or other applications
- ★Channel Threshold available for any parameter for any laser
  Ability to set the threshold on a combination (AND/OR) of channels

**PERFORMANCE**

**Fluorescence Resolution/ Fluorescence Linearity**

- ★CV PI-Area of <3%, full G0/G1 peak for propidium iodide (PI)–stained chicken erythrocyte nuclei (CEN)
- ★Doublet/singlet ratio of 1.95-2.05 for CENs stained with PI detected off the 488-nm

**Forward and Side Scatter Sensitivity**

- ★Enables separation of particles from 0,5 to 50 mm
- ★Scatter performance is optimized for resolving lymphocytes, monocytes, and granulocytes.

**Sample Acquisition Rate**

- ★>20,000 events/sec (2 x 107 cells/mL running at 60 ml/min)

## MAINTENANCE/ QUALITY CONTROL

BD Service twice a year
Weekly quality control or on need basis (CS&T)