

Objectives and Goals of the Hands-on Training on BD LSR

1. Learn in depth about the operation and maintenance of the **instrument**.
<http://www.rockefeller.edu/fcrc/tips/BDLSRII-maintenance>
2. Learn the logistics of the **DiVa** general principles and operation:
 - a. Experiment -> Specimens -> Tubes
 - b. Instrument Settings and Worksheets
 - c. Gating and Hierarchy
 - d. Global vs. Tube-Specific
 - e. Acquisition vs. Recording
 - f. Experiment, template, FCS files
3. Understand principles, accomplish and evaluate standardized instrument settings appropriate for the cells of interest (Create "**Application Settings**")
XXXXXXXXXXXXXXXXXXXXX
4. Understand principles and establish the routine for the subsequent experiments by using the **Detector Target Values**
YYYYYYYYYYYYYYYYYYY
5. Define the **best concentrations** for all the reagents (Antibodies and Dead Cell Exclusion Dyes (DCE)). Perform the **titrations** for all the Antibodies and Dead Cell Exclusion Dyes (DCE) to find the best concentration for each reagent to be used in the future experiments by assessing the best Staining Index or Signal-to-Noise ratio.
6. Understand the **Compensation Principles**
<http://www.rockefeller.edu/fcrc/tips/compensation>
7. **Perform the compensation** using the samples stained with the best concentration for each reagent (defined in step 5) as single color controls
8. Learn and execute the principles of the **Data Maintenance**
<http://www.rockefeller.edu/fcrc/data/BDLSR>