

FACS Analysis -

Cell Sorter Core Facility is located on the 6th floor of TAC Building and has seven analysis cytometers in TAC S613; these include one FACScan for 3-color acquisition, 5 FACSCaliburs for 4 colors, LSR II and LSR II Green capable of 12 color analysis. The cell analyzers may be independently operated once users have undergone training.

Ewa Menet conducts training sessions. You may schedule a training session by contacting her via e-mail at Ewa.Menet@yale.edu or by phone at 785-7949. Training sessions cost \$20/hour and each training session may have up to 3 new users (at no additional charge). At the training session new users will run a mock 4-color experiment from start to finish. This experiment will show users the various steps of using a cytometer from time-delay calibration, to data acquisition, and finally analysis.

Prior to attending a training session new users must read a background paper, Introduction to Flow Cytometry, which may be picked up in TAC S613, S631 or downloaded at [Introduction to Flow cytometry](#).

New users must also visit Mario Roederer's Compensation website at <http://www.drmmr.com/compensation/index.html>. This possibly the most comprehensive compensation resource available and is accompanied by a quiz that must be completed before attending the training class. By reading the Introduction to Flow Cytometry paper and completing Roederer's compensation quiz new users will have an adequate background to maximize their learning experience.

FACS Cell Sorting —

Users with advanced FACS backgrounds may be trained to conduct their own independent sorting experiments with the FACS Aria.

Advanced FACS users may contact Geoff Lyon via e-mail at geoffrey.lyon@yale.edu or by phone at 785-2541 to schedule a training session on the Aria. Training sessions cost \$20/hour and each training session may have up to 3 new users (at no additional charge). At the training session new users will run a mock 4-color sort from start to finish. This experiment will show users the various steps of using the Aria from machine configuration, sort set-up, acquisition, and troubleshooting.

Prior to attending a FACS Aria training session new users must read a background paper (the BD FACSDiva Option White Paper). This paper may be picked up from Geoff Lyon in S617 or downloaded at www.bdbiosciences.com/pdfs/whitePapers/23-6579-00.pdf.url

Once users show they are capable of operating the machine without the assistance of Geoff Lyon, they will be allowed to sort material independently. This will allow users to sort material after normal facility hours (Mon-Fri 9-5) and for extended periods of time (sorts greater than 4 hours).

