

AU FLOW CYTOMETRY and HIGH-SPEED CELL SORTING CORE LABORATORY:

The Flow Cytometry Facility at Auburn University provides operator-managed and assisted support for flow cytometry analyses and high-speed cell sorting. The facility has both analytical and cell sorting instrumentation available including a Beckman Coulter MoFlo XDP High-Speed Cell Sorter and a Becton Dickinson ACCURI C6 Analyzer. The laboratory offers up to 9-color 11-parameter analysis with 405, 488 and 635 nm lasers. The MoFlo XDP is also equipped with a Cyclone robotic arm providing sterile single cell sorting into microtiter plates. Also available are post-acquisition analysis software packages that provide listmode playback of all experiments in real-time with full analytical adjustment, cell cycle analysis, histogram subtraction and/or overlays of multiple histograms, and color-backgating of discrete cell populations. Precise cell counts per microliter on 50+ microliter-sized samples are also available. Secure long term data storage on hard drive, CD, and the local network are also provided. Data analysis is also available.