**The Pediatrics/Winship Flow Cytometry Core** is located in 640 sq ft of dedicated space on the 3rd floor of the Health Sciences Research Building (E362) that is linked by a bridge to the Emory Children’s Center and sites in the Winship Cancer Institute (C5027 and B3202). The Core consists of two dedicated cell sorter rooms capable of BSL2(+) level sorting and wet lab space housing the analysis instruments. The laboratories have ample bench space for sample handling and small equipment. Scheduling of instruments, training, and billing are performed on PPMS, a campus-wide core management software package. The Core has a full-time technical director providing education, analysis, and cell sorting services and another 2.5 FTE providing cell sorting, experimental design, and clinical specimen processing. Analysis can be performed on nine analyzers, including a BD FACSymphony A5 [6UV 7V 5B 6GY 3R], an identically configured FACSymphony A3, and a FACSymphony A1 [6V, 2B 5YG 3R]. We also have two five-laser Cytek Auroras [355nm, 405nm, 488nm, 561nm, & 640nm] and two four-laser Cytek Auroras, as well as a BC Cytoflex S [4V 2B 4YG 3R]. An Amnis ImageStreamx MkIIcytometer also with 4 lasers (405nm, 488nm 561nm, & 642nm; 10 fluorescent channels) provides the capability for image cytometry.

Cell sorting can be performed on a five laser Cytek Aurora CS or a SORP FACSAria II cell sorter [3UV 5V 2B 5YG 3R]. Analysis workstations are available for offline data analysis with multiple software packages, including FACSDiva, FlowJo, FCSExpress, SpectroFlo, CytExpert, IDEAS, and OMIQ. Cytometry informatics packages are available in R or MATLAB. Data storage is available through campus-wide cloud services, AWS, and data backup on a separate NAS.