

5) Penn State Flow Cytometry Core Facility

Equipment and Research Support Services

W124A Millennium Science Complex

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We have multiple flow cytometer analyzer instruments and a cell sorter for assisting with research projects, as well as analysis software for flow cytometry data. Our current instruments are:

BC FC-500: A two laser system (488nm Blue and 640nm red) with 5 channels for simpler experiments.

BD LSR Fortessa: 4-laser system (405 Violet, 488 Blue, 532 Green and 640 Red) with 13 channels. Can run on 5mL tubes or 96 well plates. Ideal for analysis of multi-fluorophore experiment panels.

Amnis Flowsight: An imaging flow cytometer that combines the analytical power of flow cytometry with microscopy for visual as well as quantitative results. 3 lasers (405 Violet, 488 Blue, 640 Red) and 10 channels.

BC Moflo Astrios Cell Sorter: 5-laser (355 UV, 405 Violet, 488 Blue, 532 Green, 640 Red), 19-channel cell sorter capable of sorting up to 6 populations simultaneously and accurately making sorting decisions up to 25,000 events per second depending on sample conditions. Can run materials up to BSL2+.