# Cell Sorters

**Brief description:**
The BD FACSArias are “fluorescent-activated cell sorters”, also commonly referred to “Cell Sorters”. Through the detection of fluorescently labeled antibodies and dyes that are used to stain cells, individual cells can be sorted based on the expression patterns of surface, intracellular and nuclear proteins. The three sorters are configured as follows:

Aria II FITC, PE, PE-Texas Red, PerCPCy5.5, PE-Cy7, APC (or AF647), AF700, APC-Cy7, Pacific Blue, V500, BV605.

Aria III: FITC, PE, PE-Texas Red, PerCPCy5.5, PE-Cy7, APC (or AF647) APC-Cy7, Pacific Blue, V500, BV605, BV655, BV711.

New Aria III: FITC, PE, PE-Texas Red, PerCPCy5.5, PE-Cy7, APC (or AF 647), AF700, APC-Cy7, Pacific Blue, V500, BV605, BV655, BV711.

The colors listed are the most commonly used, other manufacturers have fluorescent labeling with different proprietary names that work with the sorters. Check with Lusijah if you have any questions. None of the sorters can detect Qdot-labeled antibodies. All three instruments can sort cells through 70um, 85um or 100 um nozzles and can perform 1-way, 2- way, 3-way or 4-way sorts allowing up to 4 separate populations to be sorted simultaneously. The Aria II and the New Aria III (but not the Aria III) can also sort cells into 6, 12, 24, 48 or 96-well plates.

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