

Faculty of Medicine Flow Cytometry Facility - BD Fortessa X20 (special order system) 4- laser Configuration

| Laser | Detection Filter | Colours |
|-----------------------|------------------|--|
| Blue (488 nm) | 530/30 | FITC/BB5815/VioBright FITC/Alexa488 |
| | 695/40 | PerCP*, PerCP-Cy5.5™, PE-Cy5™ (PC5), PE-Cy5.5™**, PerCP-eFluor® 710, PE-Alexa Fluor™ 700, PE-Alexa Fluor™ 680, PE-Alexa Fluor™ 647, 7-AAD, Propidium Iodide (PI), 7-AAD, SYTOX® AADvanced™ Dead Cell Stain |
| Red (640 nm) | 670/14 | Alexa Fluor® 633, Alexa Fluor® 635, Alexa Fluor® 647, Alexa Fluor® 647-PE, Alexa Fluor® 660, APC, APC-Cy5™, Atto 647, Cy5™, DyLight® 647, Dyomics 647 (DY-647) Atto 655, DyLight® 633, DyLight® 649, HiLyte Fluor™ 647, DyLight® 650, Atto 633, Atto 647N, TO-PRO®-3, DRAQ5™ (DNA dye), DRAQ7™ (DNA dye), SYTOX® Red Dead Cell Stain |
| | 735/45 | APC-Cy5™, APC-Cy5.5™, Alexa Fluor® 680, Alexa Fluor® 680-APC, Alexa Fluor® 680-PE, Alexa Fluor® 700, Cy5.5™, Atto 680, Atto 700, DyLight® 680, APC-Alexa Fluor® 680, APC-Alexa Fluor® 700, RedFluor™ 710, DRAQ5™ (DNA dye), DRAQ7™ (DNA dye), Zombie NIR™ Fixable (viability) |
| | 780/60 | Alexa Fluor® 750, APC-Cy7™, Cy7™, Qdot® 800, Atto 700, DyLight® 750, APC-Alexa Fluor® 750, APC-eFluor® 780, APC-H7, HiLyte Fluor™ 750, APC-C750, DyLight® 755, redFluor™ 710, DRAQ5™ (DNA dye), Zombie NIR™ Fixable (viability), LIVE/DEAD® |
| Violet (405 nm) | 450/50 | Alexa Fluor® 405, Cascade Blue®, Pacific Blue™, Atto 390, Atto 425, DyLight® 405, eFluor® 450, Brilliant Violet 421™ (BV421™), Phalloidin, CF405M, Brilliant Violet 510™ (BV510™), Pacific Green™, violetFluor™ 450, LIVE/DEAD® Fixable Violet, DAPI, SYTOX®Blue Dead Cell Stain, Zombie Violet™ Fixable (Viability), Zombie Violet™ Fixable (Viability), Cyan Fluorescent Protein (CFP), Tag-BFP, Cerulean |
| | 525/50 | Alexa Fluor® 430, EviTag® quantum dots - Adirondack Green (520 nm), EviTag® quantum dots - Catskill Green (540 nm), Qdot®525, Atto 390, Atto 425, Pacific Orange™, Cascade Yellow®, eFluor® 565NC, Orange Cytognos 515™ (OC-515), Krome Orange™, Brilliant Violet 510™ (BV510™), Pacific Green™, 7C, LIVE/DEAD® Fixable Aqua, DAPI, SYTOX® Blue Dead Cell Stain, Zombie Aqua™ Fixable (viability), Zombie Yellow™ Fixable, LIVE/DEAD® Fixable Yellow, Cyan Fluorescent Protein (CFP) |
| | 605/20 | Alexa Fluor® 430, EviTag® quantum dots - Fort Orange (600 nm), Qdot® 605, eFluor® 605NC, Cascade Yellow®, Brilliant Violet 605™ (BV605™), Zombie Yellow™ Fixable, LIVE/DEAD® Fixable Yellow |
| | 660/20 | Qdot® 655, eFluor® 650NC, Brilliant Violet 650™ (BV650™) |
| | 720/40 | Qdot® 705, Brilliant Violet 711™ (BV711™) |
| | 780/60 | Qdot® 800, Brilliant Violet 785™ (BV785™) |
| Yellow/Green (561 nm) | 586/15 | Alexa Fluor® 546, Cy3™, PE, Rhodamine, Alexa 555, Alexa Fluor® 568, Rhodamine Red-X, HiLyte Fluor™ 555, RD1 (Phycoerythrin), eFluor® 585NC, DsRed, TdTomato, RFP, mCherry, mTomato |
| | 610/20 | PE-Texas Red (ECD), Alexa Fluor® 594, Rhodamine Red-X, Texas Red, PE-Alexa Fluor™ 610, Rhodamine Red™, PE-Dylight® 590, eFluor® 615, PE-Dazzle™ 594, mCherry, PE-Dazzle, PE-CF594 |
| | 660/20 | PE-Cy5™ (PC5), eFluor® 650NC, PE-Alexa Fluor™ 610, PE-Dylight® 647, PE-Alexa Fluor™ 647, SureLight® P1 |
| | 710/50 | PE-Cy5.5™**, PE-Alexa Fluor™ 700, PE-Alexa Fluor™ 680, PE-Alexa Fluor™ 647, PE-Cy6™ (PC6) |
| | 780/60 | PE-Cy7™ (PC7), PE-Alexa Fluor™ 750 |

* Avoid PerCP (very DIM) and use PCPCy5.5

** Avoid PE-Cy5.5 with PerCP-Cy5.5 on the Yellow Green configured instruments

*** Avoid using PE-Cy5 and PE-Cy5.5