| Standard Operating Procedure – Cytometry Facility – UZH | | |
|---|---|---|
| Pages 1/1 | **Image Stream X – Fluorochrome Chart** | Dec 2025 |

| | | | Excitation Laser (nm) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Ch | Band (nm) | 375 | 405 | 488 | 561 | 642 | 785 |
| Camera 1 | 1 | **435-480** (457/45) | *Ch1/Ch9 BF or* ***DAPI, *Hoechst, cFluorV420*** Zombie-Aqua, BV421 | Brightfield (BF) | | | | |
| | 2 | **480-560** (528/65) | *BV510, Pac Orange, QD525 | | **cFluorB515, BB515, GFP, AF488, DyL488,** FITC, YFP, | | | |
| | 3 | **560-595** (577/35) | eFluor565, *QD565, QD585 | | PE, Cy3, DsRed | **PE, RY586, cFluorBYG575, AF546, tdTomato**, Cy3, DsRed, | | |
| | 4 | **595-642** (610/30) | *Ch4/Ch10 BF or* BV605, eFluor625, *QD625 | | *Ch4/Ch10 BF or* **RB613**, *PI, *PE-TexRed, RFP, *eFluor625 | *Ch4/Ch10 BF or* **RY610,*cFluorBYG610, *AF568**, *DyL594, *PE-TexRed, RFP, **mCherry** | | |
| | 5 | **642-745** (702/85) | BV711, eFluor700, *QD705 | | **RB705**, *PerCP-Cy5.5, *PE-Cy5, *7AAD, *Draq5 | **RY703,*cFluorBYG710, *PE-Cy5, *7AAD**, *Draq5 | | |
| | 6 | **745-780** (762/35) | BV786, *QD800 | | **RB780** | **RY775, PE-Cy7, *cFluorBYG781, *PE-AF750** | | **SSC** |
| Camera 2 | 7 | **435-505** (457/45) | | **DAPI, BV421, *cFluorV420, AF405, DyL405, CFP, L/D Violet** | | | | |
| | 8 | **505-570** (537/65) | | ***cFluorV547, *BV510,** eFluor525, AF430, PacOrange | | | | |
| | 9 | **570-595** (582/25) | | *Ch1/Ch9 BF or* *QD565, eFluor565 | Brightfield (BF) | | | |
| | 10 | **595-642** (610/30) | | *Ch4/Ch10 BF or* **cFluorV610, BV605, SBV610, eFluor625** | | | | |
| | 11 | **642-745** (702/85) | | **BV711**, **SBV710**, *QD705 | | | **AF647, APC, cFluorR668, Cy5, DyL649, *Draq5, eFluor660**, *PE-Cy5 | |
| | 12 | **745-780** (762/35) | | **BV786**, **SBV760**, *QD800 | | | **cFluorR780, APC-Cy7, APC-eFluor780,** eFluor750, *PE-Cy7 | **SSC** |

- **Recommended dyes** (based on optimal excitation and detection channels) **are in boldface.**

  ***** These dyes will be excited by more than one laser and will increase cross camera spillover.

- **Potential brightfield combinations:** Ch1&Ch9 (default), Ch2&Ch8, Ch4&Ch10, Ch5&Ch11 and Ch6&Ch12

- Simultaneous use of the 375 nm and 405 nm lasers is not possible. The 405 nm laser is usually the better option.

- Colocalization studies in high resolution are recommended to be recorded by channels of the same camera!