**Supplementary file 2:** Table of emission filters for 2-photon microscopy

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| --- | --- | --- |
| Emission/Fluorophore | Filter | Vendor |
| Second harmonic(half of incident laser wavelength) | 450 short-pass460/60469/35470/40510/20539/30 | ChromaSemrockSemrockChromaChromaSemrock |
| CFP | 469/35472/30 | SemrockSemrock |
| GFP | 525/50510/20510/20 | ChromaChromaSemrock |
| YFP | 525/50525/40535/30539/30 | ChromaSemrockChromaSemrock |
| PE | 588/45610/75 | ZeissChroma |
| tdTomato | 588/45605/70610/75625/30 | ZeissChromaChromaChroma |
| Tetramethylrhodamine(TRITC, TAMRA) | 610/75625/30 | ChromaChroma |
| Texas Red | 605/70610/75625/30 | ChromaChromaChroma |
| Alexa 647 | 670/50690/50 | ChromaZeiss |
| eFluor 660 | 690/50 | Zeiss |
| Sky Blue beads | 690/50 | Zeiss |