

# Technical Specifications – FRET

- **Objectives:**

- 10X/0.45 Plan-Apochromat. Brightfield (H), Phase contrast (Ph1) and Nomarski (DIC II)
- 20X/0.8 Plan-Apochromat. Brightfield (H) and Nomarski (DIC II)
- 40X/1.3 oil Plan-Neofluar. Brightfield (H) and Nomarski (DIC II)
- 63X/1.4 oil Plan-Apochromat. Brightfield (H) and Nomarski (DIC III)
- 100x/1.3 oil Plan-Neofluar. Brightfield (H) and Nomarski (DIC III)

**Other objectives to be requested:**

- 5X/0.15 Plan-Neofluar. Brightfield (H)
- 2,5x/0.075 Plan-Neofluar. Brightfield (H)
- **40X/0.6 LCD Plan-Neofluar. Brightfield (H)**
- 40X/1.2 Water C-Apochromat. Brightfield (H) and Nomarski (DIC III)
- 63X/1.2 Water C-Apochromat. Brightfield (H) and Nomarski (DIC III)

- **Fluorescence Excitation:**

DAPI 395/25	CFP 434/21	GFP 470/24	YFP 511/16	TRITC 550/15	Cy5 640/30	TEXAS 575/25 <b>(Request to SMOC)</b>
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- **Reflector Turret:**

- Dapi/GFP/TRITC/Cy5 (**Dichroic:** 380-404 461-487 543-566 626-644 **Em:** 432/36 514/32 595/34 730/144)
- CFP (**Dichroic:** 455DCLP **Em:** 460-500) (Chroma)
- Analyzer
- **Dichroic** CFP/YFP (440-500 510-610)
- **Dichroic** FT600

- **Fluorescence Emission – Fast Filter Wheel Changer [LAMBDA 10-3 \(SUTTER\)](#)**

DAPI 414-450	Open	CFP 460-500	GFP 520-550	YFP 529-556	YFP 520 LP	GFP 503-538	TRITC 565-595	TexasRed 590-650	Cy5 665 LP
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- **Optics:** Brightfield, Nomarski, Phase contrast and Fluorescence ([Spectra-X Lumencor](#))
- **Camera:** [PCO edge 4.2 bi \(PCO\)](#)
- **Motorized Stage** ([Marzhauser](#))
- **In vivo system:** Temp, CO<sub>2</sub> and perfusion system
- **Software:** Metamorph 7.10.4.07