

## Widefield 4 (August 2020)

- Leica DM IRB inverted fluorescence microscope for visual inspection of samples labelled with broad range of blue, green, red and far-red fluorophores.
- Colour Leica DFC 450C camera and Leica software enables simple image acquisition of fluorescent and coloured specimens (eg histological sections).
- Phase contrast optics for some lenses.
- Limited range of objective lenses but compatible with other Leica lenses if required.

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### Filters for visual inspection

	Excitation range	Fluorophore (examples)	Excitation filter	Dichroic mirror	Emission filter
A	UV	DAPI Hoescht	BP 340-380	RKP 400	LP 425
I3	Blue	FITC GFP	BP 450-490	RKP 510	LP 515
N2.1	Green	Rhodamine TRITC Texas red	BP 515-560	RKP 580	LP 590

### Lenses

Lens	Dry/ Oil	Phase contrast	DIC	Working distance (mm)	Numerical aperture	Features	Serial number	Pixel width at 1x binning in microns
5x N Plan	Dry	No	No	14	0.12		506087	1.23
10x PL Fluotar	Dry	PH1	No	3.8	0.3		506010	0.61
20x N Plan	Dry	PH 1	No	0.39	0.4		506098	0.307
40x N Plan	Dry	No	No	1.9 – 3.3	0.55	Coverglass correction collar	506059	0.15
63x HCX PL Apo CS	Oil	PH 3	No	0.07	1.32		506182	0.1