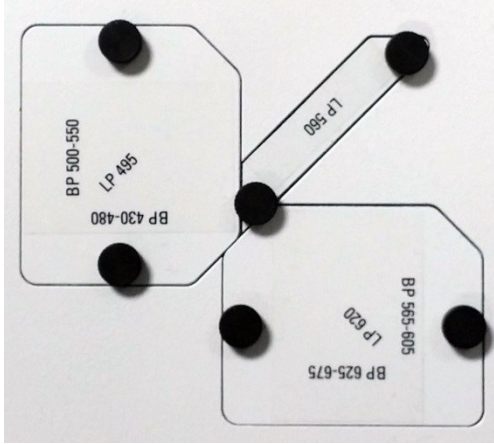


System Name: Leica TCS SP5 X MP-OPO.

Room: E1038 (right side).

Upright confocal microscope equipped with a Z-galvo or fixed stage, MP, OPO and White Light lasers, SHG cube and temperature control (whole microscope). This confocal can be used with the standard or resonant scanner (8000 Hz), respectively for standard and fast imaging.

Illumination	Wavelength range, nm	Application examples
<b>Brightfield:</b> Halogen 12V 100W. <b>Fluorescence (direct observation):</b> Source: EL 6000.	VIS/IR.  UV/Vis/Far red.	Direct brightfield observations.  Direct fluorescence observations.
<b>Lasers (confocal imaging):</b> <ul style="list-style-type: none"> <li>- 405 diode.</li> <li>- Argon.</li> <li>- White Light Laser.</li> </ul>	405.  458/476/488/496/514.  From 470 to 670 nm (continuously).	Dapi/Hoechst imaging, DNA damages. Confocal Imaging + FRAP. Confocal Imaging, usually too weak for FRAP).

Detection	Wavelength range, nm	Application examples
<b>Fluorescence cubes for direct observation:</b> <ul style="list-style-type: none"> <li>- A4.</li> <li>- I3.</li> <li>- N2.1.</li> </ul> <b>Descanned detectors:</b> <ul style="list-style-type: none"> <li>- 3 PMTs (pos. 1,2,4).</li> <li>- 1 HyD (pos. 3).</li> </ul> <b>Non-Descanned Reflected Detectors:</b> Photo for spectral features	Dapi/Hoechst. GFP/FITC/Alexa 488 RFP/mCherry.  	Multiphoton imaging.

<p><b>Non-Descanned Transmitted Detectors:</b></p> <ul style="list-style-type: none"> <li>- 1 PMT for Brightfield imaging equipped with the Dodt contrast.</li> <li>- 1 PMT for SHG imaging equipped with a 470/22nm stop filter.</li> </ul>	<p>SHG illumination at 940 nm.</p>	
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Default objectives	Magnification	Numerical aperture	Working distance, <b>mm</b>	Immersion	Miscellaneous
HCX IRAPO L 25x/0.95 W.	25	0.95	2.5	Water.	
HCX APO L 63x/0.90 W U-V-I.	63	0.9	2.2	Water.	
HCX PL APO 63x/1.40-0.60 OIL CS.	63	1.4-0.6	0.1	Oil.	
HC APO L 10x/0.30 W U-V-I.	10	0.3	3.6	Water.	
HC PL APO 20x/0.70 IMM CORR CS.	20	0.7	0.26-0.17	Multi Immersion.	