

System Name: Leica TCS SP5 Inverted.

Room: E1038 (left side).

Inverted confocal microscope equipped with a Z-galvo stage, MP excitation and temperature control (whole microscope). This confocal can be used with the standard or resonant scanner (8000 Hz, 8000 lines/s) for fast imaging.

Illumination	Wavelength range, nm	Application examples
<b>Brightfield:</b> Halogen 12V 100W. <b>Fluorescence (direct observation):</b> Source: EL 6000.		Brightfield direct observations. Fluorescence direct observations.
<b>Lasers (confocal imaging) CW</b> <ul style="list-style-type: none"> <li>- 405 diode.</li> <li>- Argon.</li> <li>- DPSS 561.</li> <li>- HeNe 594.</li> <li>- HeNe 633.</li> </ul>	405 nm  458/476/488/496/514  561  594  633	Dapi/Hoechst imaging, DNA damages. Confocal Imaging.  Confocal Imaging.  Confocal Imaging.  Confocal Imaging.
<b>Lasers (confocal imaging) Pulsed :</b> MP : Coherent Chameleon Ultra II.	From 680 to 1080 nm	Deep sample imaging. Long term imaging.

Detection	Wavelength range, nm	Application examples
<b>Fluorescence cubes for direct observation:</b> <ul style="list-style-type: none"> <li>- A4.</li> <li>- L5.</li> <li>- N2.1.</li> </ul>	Dapi/Hoechst. GFP/FITC/Alexa 488 RFP/mCherry.	
<b>Descanned Detectors :</b> <ul style="list-style-type: none"> <li>- 2 PMTs (positions 2,4)</li> <li>- 2 HyD (positions 1,3)</li> </ul>		
<b>Reflected Non-Descanned Detectors :</b> <ul style="list-style-type: none"> <li>- 2 PMTS : FITC / TexasRed (spectral features to come...)</li> </ul>		Multiphoton imaging.
<b>Transmitted Non-Descanned Detectors :</b> <ul style="list-style-type: none"> <li>- 1 PMT</li> </ul>		Brightfield imaging.

Default objectives	Magnification	Numerical aperture	Working distance (mm)	Immersion	Miscellaneous
PL FL 10x/0.30 PH1 0.17/D 4.9.		0.3	3.8	Dry.	
HC PL APO 20x/0.70 IMM CORR CS.	20	0.7	0.26-0.17	Multiple Immersion.	
CX PL APO 40x/1.25-0.75 OIL CS.	40	1.25	0.1	Oil.	
HCX PL APO 63x/1.40-0.60 OIL Lbd Bl.	63	1.4-0.6	0.1	Oil.	
HC PL APO 20x/0.70 CS.	20	0.7	0.59	Dry.	
HCX PL APO 63x/1.30 GLYC CORR 37°C.	63	1.3	0.28	Glycerol.	37°C.