

# The new Zeiss LSM 780 confocal microscope at the Bugnon campus

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The new confocal microscope that replaces the old Leica SP5 is now up and running, and available for bookings and trainings.

For the CIF users already trained on the 710, the switch to the 780 should be relatively straightforward, and only a few minutes should be necessary to get the sense of what is different. New users will be trained on the 780 unless there's a specific demand.

One major change from the 710 is the use of GaAsp detectors instead of the usual PMTs to detect the fluorescence signal. These detectors are much more sensitive, and are best suited for difficult samples and weak signal.

The Zen software is in its 2012 version, and comes with tweaks here and there in the user interface, but also with a much more comprehensive (and smart&hellip;) - Smart Setup.

If you need a training or a short introduction, please contact Yannick KREMPP before booking it for the first time.

The LSM 780 specs sheet

Inverted microscope with fully motorized stand, motorized stage, DIC and Phase, 32 GaAsp detectors, Quasar array for spectral detection and unmixing (34 channels), FCS, Transmission PMT.

Illumination

X-Cite lamp

## Laser illumination

Diode 405 nm, Argon 458-476-488-514 nm, DPSS 561 nm, He/Ne 633 nm.

## Objectives

- Plan Neofluar 10x / 0.30 NA
- Plan Apochromat 20x / 0.8 NA
- Plan Neofluar 40x / 0.6 NA
- Plan Apochromat 40x / 1.30 NA / oil immersion
- Plan Apochromat 63x / 1.40 NA / oil immersion

## Software

Zen 2012