**Leica SP5II Laser Scanning Confocal & Wide Field Microscope**

The innermost room A4-110C houses SP5 Laser Scanning Confocal Microscopes and one powerful Image Deconvolution, 3D Rending and Analysis Workstation

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**SP5II** covers a broad range of requirements in in Confocal Imaging - with the full array of scan speeds at highest resolution, as well as Wide Field Imaging.

* 8 Laser lines, conventional flexible or resonate fast fixed speed scanner
* With its high-efficiency SP detection (five channels simultaneously) and AOBS (Acousto-Optical Beam Splitter), the system delivers bright, low noise images with minimal photo damage at high speed.
* The Leica HyD (hybrid detector) for confocal imaging offers unparalleled contrast for brilliant, publication-ready images. The Leica HyD sets the standard for super-sensitive imaging.
* With an auto Galvo-stage, 2D tiling and 3D stack images are automatic and precise.
* Spectral detector can do emission wavelength scan spectral imaging for spectra analysis to distinguish auto-fluorescence and staining, non-specific bonding and specific bonding, etc.
* Special imaging methods of FRET SE, FRET AP and FRAP.
* Wide Field: 8 LEDs from CoolLED pE-800, 2 Quad-dichroic, 8 emission filters on wheel. 7M 12bit synchronized camera imaging for single or multi-channel at fast full frame rate up to 20-48 fps.
* Big environmental box, heater and gas mixer provide stable temperature (up to 40 °C), CO2, and moisture for **best time-lapse 4D live imaging** of cell or tissue on slide, dish or plate.