Evident FV5000

We are pleased to announce that the new Evident (formal "Olympus") FV5000 Confocal microscope, installed in HSC Room 48B, is now fully operational and available for use. Training sessions may be scheduled immediately.

General Specs:

- Brightfield and EPI illumination
- DIC ready for 60X and 100X
- Six-laser system: 405, 488, 561, 594, 640, and 730 nm
- Marzhauser Scan IM 120 × 80 encoded motorized scanning stage
- TruFocus Z-drift compensation system for time-lapse and stitching
- TruResolution™ automated spherical aberration correction system
- High-speed 2K resonant hybrid scanning unit equipped with high-density 8K galvanometer scanning mirrors for high-speed imaging
- Four broadband SilVIR detector units enabling high-sensitivity, ultra-low-noise imaging of fixed and live cells
- Tokai Hit stage-top incubator (full digital control of temperature, CO_2, and humidity for ultimate simplicity) equipped with a programmable perfusion system (PMD D35)
- Silicone Gel Pad Immersion Pack (compatible with LUPLAPO25XS)
- CellSens Dimension Desktop acquisition software
- Integrated CellSens TruSight 3D Deconvolution software

Objectives:

- UPLXAPO 4X Dry, 0.16, 13 mm
- UPLXAPO 10X Dry, 0.4, 3.1 mm
- UPLXAPO 20X Dry, 0.8, 0.6 mm
- LUPLAPO 25X **Silicon Oil and Gel, water, CORR, 0.85, 2 mm**
- UPLXAPO 60X Oil, 1.42, 0.15 mm
- UPLXAPO 100X Oil, 1.5, 0.12 mm

Suggested Applications:

- 3D imaging
- Fixed and live-cell imaging
- Perfusion measurements
- Large tissue imaging
- Tiled mosaics

- Time-lapse imaging

Advanced Applications:

- NIR measurement with the 730 nm laser (the only option in our core for this wavelength)
- 25X silicon oil lens provides up to 2 mm deep measurement
- Silicone Gel Pad (compatible with the 25X silicon oil lens) enables overnight experiments and large-area scanning (stitching) without the risk of immersion medium drying out
- Programmable perfusion, media exchange, drug delivery, and mixing system during cell culture via the Tokai Hit PMD D35 controller
- TruResolution™ automated spherical aberration correction system for deep tissue structures acquisition