[Olympus BX61 Fluorescence and Bright Field Automated Upright Microscope](http://www.olympus.fi/medical/en/microscopy/components/component_details/component_detail_19841.jsp)

* Excitation light source: [120W EXFO X-Cite PC120 Metal Halide Lamp](http://www.company7.com/library/exfo/X-Cite_120PC.pdf)
* [cellSens Dimension](http://www.olympus-lifescience.com/en/software/cellsens/#!cms[tab]=%2Fsoftware%2Fcellsens%2Ffeatures) 64 bit Image Acquisition, Process and Analysis software
	+ Automatic Multi-channel Fluorescence (FL) acquisition(DAPI, FITC, TRITC, TexRed, Cy5)
	+ Automatic Bright Field (BF) colour or gray scale acquisition
	+ Automatic multi-position image tiling acquisition and real-time stitching, either FL or BF, up to thousand frames
	+ Automatic file naming, direct file saving to networked group or personal driver
* Filter sets
	+ DAPI: EX BP 377/50, DM 409, EM BP 447/60
	+ FITC: EX BP 482/35, DM 506, EM BP 536/40
	+ TRITC: EX BP 535/50, DM 565, EM BP 610/75
	+ TexRed: EX BP 562/40, DM 593, EM BP 624/40
	+ CY5: EX BP 628/40, DM 660, EM BP 692/40
* Objectives
	+ [4X/0.16 U PLAN S-APO, WD 13mm](http://www.olympus-lifescience.com/en/objectives/uplsapo/#!cms[tab]=%2Fobjectives%2Fuplsapo%2F4x)
	+ [10X/0.4 U PLAN S-APO, WD 3.1mm](http://www.olympus-lifescience.com/en/objectives/uplsapo/#!cms[tab]=%2Fobjectives%2Fuplsapo%2F10x2)
	+ [20X/0.75 U PLAN S-APO, WD 0.6mm](http://www.olympus-lifescience.com/en/objectives/uplsapo/#!cms[tab]=%2Fobjectives%2Fuplsapo%2F20x)
	+ [40X/0.9 U PLAN S-APO, WD 0.18mm, coverslip correction 0.11-0.23mm](http://www.olympusmexico.com.mx/spanish/seg/img/auxiliares/bro_UIS2objectives.pdf)
	+ [60X/1.42 PLAN APO N Oil, WD 0.15mm](http://www.olympus-lifescience.com/en/objectives/plapon/#!cms[tab]=%2Fobjectives%2Fplapon%2F60xo)
	+ [100X/1.35-0.5 U PLAN APO Oil Iris, WD 0.13mm](http://www.olympusmicro.com/brochures/pdfs/objectives.pdf)
* Cameras
	+ [QImaging Retiga Exi cooled](http://www.qimaging.com/products/datasheets/RetigaEXi_fast1394.pdf), gray scale (black and white) camera, 1392x1040, 6.45µm2 pixel size, 12bit, 10fps max, linear full well 18,000 e- , read noise 8 e-, dark current 0.15 e-/pix/s
	+ [Olympus DP71](http://www.olympusmexico.com.mx/spanish/seg/img/catalog/dp71_brochure.pdf), colour camera, 6.45µm2 pixel size, 1360x1024 native, max 4080x3072 with pixel shift, 12bit gray, 10bit colour, 15fps max at live image size 1360 x 1024, equiv. ISO 200, 400, 800, 1600