CONFOCAL LASER SCANNING MICROSCOPE ZEISS LSM 700:

4 Laser lines	• Laser line 405 nm (5mW fiber output) • Laser line 488 nm (10mW fiber output) • Laser line 555 nm (10mW fiber output) • Laser line 639 nm (5mW fiber output)
Objectives	• W N-Achroplan 10x/0,3 M27 objective (dt=2,6 mm) • Plan-Apochromat 20x/0.8 Ph2 M27 objective (dt=0.55mm) • W Plan-Apochromat 40x/1,0 Ph3 M27 objective (dt=2,5mm), VIS-IR • Plan-Apochromat 40x/1,3 Oil DIC M27 objective (dt=0,2 mm), (UV)VIS-IR • Plan-Apochromat 63x/1,40 Oil DIC M27 objective (dt=0,19 mm)
Maximum lateral resolution	• 200 nm
Detection system	• Two confocal fluorescence detectors (High sensitivity photomultipliers) • Software ZEN
Applications	• 3D Image • Multiple fluorescence and colocalization analysis • *In vivo* image acquisition (time-lapse)

OPTICAL EPIFLUORESCENCE MICROSCOPE NIKON ECLIPSE 90i:

Illumination	• Visible DC lamp 12V, 100W • Mercury lamp 100W
Objectives	• Objective Plan Apo 2x/0.1 • Objective Plan Fluor 10x/0.30 DIC L/N1 • Objective Plan Apo 20x/0.75 DIC M/N2 • Objective Plan Apo 40x/0.95 DIC M/N2 • Objective Plan Apo 60x/1.4 • Objective Plan Apo 100x/1.4
Magnification	• 16-2000x
Fluorescence filters	• DAPI: Ex 340-380 / DM 400 / BA 435-485 • FITC: Ex 465-495 / DM 505 / BA 515-555 • G-2A: Ex 510-560 / DM 575 / BA 590
Detection system	• Nikon Camera DXM1200F (Software ACT-1)
Observation methods	• Brightfield • Epifluorescence • DIC or Nomarski • Polarized light

OPTICAL EPIFLUORESCENCE MICROSCOPE NIKON ECLIPSE 80i:

Illumination	• Visible DC lamp 12V, 100W • Mercury lamp 100W
Objectives	• Objective Plan UW 2x/0.06 • Objective Plan Fluor 4x/0.13 • Objective Plan Fluor 10x/0.30 DIC L/N1 • Objective Plan Apo 20x/0.50 DIC M • Objective Plan Apo 40x/0.95 DIC M/N2 • Objective Plan Apo 100x/1.4 Oil DIC H
Magnification	• 20-1000X
Fluorescence filters	• UV-2A: Ex 330-380 / DM 400 / BA 420 • B-2A: Ex 450-490 / DM 505 / BA 520 • G-2A: Ex 510-560 / DM 575 / BA 590
Detection system	• Nikon Camera DXM1200F (Software ACT-1)
Observation methods	• Brightfield • Epifluorescence

OPTICAL EPIFLUORESCENCE MICROSCOPE NIKON ECLIPSE TE2000-E:

Illumination	• Visible DC lamp 12V, 100W • Mercury lamp 100W
Objectives	• Objective Plan Fluor 10x/0.30 Ph1 DLL • Objective Plan Apo 20x/0.45 DIC Ph1 DM • Objective Plan Apo 40x/0.60 DIC M • Objective S Fluor 40x/1.3 Oil • Objective Plan Apo 100x/1.3 Oil Ph3 DLL
Magnification	• 100-1500X
Fluorescence filters	• DAPI: Ex 340-380 / DM 400 / BA 435-485 • FITC: Ex 465-495 / DM 505 / BA 515-555 • G-2A: Ex 528-553 / DM 565 / BA 578-633
Detection system	• Nikon Color Camera DS-2Mv (Software NIS-Elements) • Hamamatsu Monochromatic Camera ORCA-ER (Software Metamorph)
Observation methods and applications	• Brightfield • Epifluorescence • Phase contrast (10x and 20x) • Fixed or *in vivo* samples, with temperature controller for RT 50ºC • *Stacks* in z and *time-lapse* (motorized stage)

OPTICAL EPIFLUORESCENCE MICROSCOPE NIKON ECLIPSE TE2000-U:

Illumination	• Visible DC lamp 12V / 100W • Cairns monochromator with Xenon lamp 150W, wavelengths between 300-700 nm
Objectives	• Objective Plan Fluor 10x/0.30 Ph1 DLL • Objective Plan Apo 20x/0.45 DIC Ph1 DM • Objective Plan Apo 40x/0.60 DIC M • Objective S Fluor 40x/1.3 Oil • Objective S Fluor 100x/0.5-1.3 Oil
Magnification	• 100-1500X
Fluorescence filters	• D535/25 (400-600 nm) • D605/55M (500-700 nm) • D510/40M (320-620 nm) • HQ530/50 (300-750 nm)
Detection system	• Hamamatsu Camera ORCA-ER (Software MetaFluor)
Observation methods and applications	• Brightfield • Epifluorescence • Phase Contrast (10x and 20x) • *In vivo*, with temperature controller for RT 50ºC • *Time-lapse*: intracellular calcium, pH, membrane potential.....