

# Nikon Automated Widefield Microscope

Location: HCI Room 1430

## Main features of System:

- Widefield light pathway employs a high sensitivity Andor Zyla CMOS camera
- Sola automated LED lightsource for both widefield fluorescence and transmitted illumination pathways
- Fully automated Nikon Ti-E inverted microscope
- Perfect Focus System provides focal depth consistency across varying sample regions of interest
- Motorized Prior II XY stage with a variety of stage inserts available (slides, dishes, multiwall plates, etc..)
- Nikon NIS-Elements multi-platform acquisition software capable of Tiling, timelapse, scripting, analysis and advanced image processing.
- Stage Incubator: OKOLAB, CO<sub>2</sub> and Humidity with either dish or plate adaptor

## Suggested Applications:

- Multichannel fluorescence and transmitted fixed slide imaging
- Tiling mosaics of fixed or live samples
- Timelapse of dishes or glass bottom well plates

## Objectives:

Objective	Magnification	Immersion	Numerical Aperture	Correction Ring	Coverglass (mm)	Working Distance (mm)
Plan Apo Lambda	4	Air	0.2			20
Plan Apo Lambda	10	Air	0.45		0.17	4
Plan Apo Lambda	20	Air	0.75		0.17	1
S PLAN Fluor ADM ELWD	20	Air	0.45	Corr	0-2.0	8.2-6.9

Plan Apo Lambda	60	Oil	1.4		0.17	0.13
Plan Apo Lambda	100	Oil	1.45		0.17	0.13

Other objectives available. Please inquire with Core personnel

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