

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, CO₂ 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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