

## Microscopy Equipment Quality Control Plans

	Quality Performance	Quantitative Performance <sup>¶</sup>		New System Documentation <sup>¶</sup>
		Widefield	Confocal	
<b>General inspection and cleaning of the workstation:</b> <ul style="list-style-type: none"> <li>• Microscope, including stage (especially oil and spills), computer, table, etc</li> <li>• Transmitted light path (including eyepieces, condenser, PC/DIC elements)</li> <li>• Air table level and pressure</li> </ul>	√ √ -	√ √ √	√ √ √	N.A. N.A. N.A.
<b>Transmitted light path:</b> <ul style="list-style-type: none"> <li>• Condenser alignment</li> <li>• Alignment of DIC elements and/or phase contrast rings</li> </ul>	√ √	√ √	√ √	N.A. N.A.
<b>Objectives:</b> <ul style="list-style-type: none"> <li>• Qualitative evaluation (dust, dirt, scratches, etc)</li> <li>• Cleaning (oil, spills, mounting media, etc)</li> <li>• Quantitative evaluation (PSF, true resolution, spherical aberrations)<sup>#</sup></li> </ul>	√ √ -	√ √ √	√ √ √	N.A. N.A. √
<b>Fluorescence:</b> <ul style="list-style-type: none"> <li>• Alignment and even illumination</li> <li>• Inspection and cleaning (entry/exit lens, filter cubes, ND filters)</li> <li>• Widefield light source intensity measurement</li> <li>• Laser intensity measurement</li> <li>• Light through put efficiency (photo-electron conversion factor)<sup>§</sup></li> <li>• Filter cube performance (color registration, chromatic aberrations)</li> <li>• Dichroic mirrors and emission filters performance (color registration, chromatic aberrations)</li> </ul>	√ √ - - - - -	√ √ √ N.A. √ √ N.A.	√ √ - √ √ - √	N.A. N.A. √ √ √ √ √
<b>Detector:</b> <ul style="list-style-type: none"> <li>• Performance (offset and noise)</li> <li>• Pinhole alignment</li> </ul>	- -	√ -	√ √	√ N.A.
<b>Rates*:</b> <ul style="list-style-type: none"> <li>• Fee (per year-system)/hours/visits (approximate)</li> </ul>	2000\$/25/6	2750\$/34/9	3600\$/44/11	1500\$/19/2-3

<sup>¶</sup>Report provided.

<sup>#</sup>For two high-resolution objectives, extra fees apply for additional objectives. The New System Documentation Plan covers all objectives. Equipment must have the ability to acquire Z-stacks.

<sup>§</sup>Optional, 900\$ additional fee.

\*Plans are customizable. Rates are approximate only, and vary with usage and status of the system, training of the users and options selected. QC methodology is subject to change without notice. Training/QC plans also available.

## Microscopy Equipment Training Plans

Goals of trainings:

1. Acquire images without damaging the equipment
2. Acquire images without destroying the sample
3. Acquire images suitable for subsequent analysis (quantitatively)

	No QC plan	With QC plan
<b>Included:</b> <ul style="list-style-type: none"> <li>• Basic microscopy and operation (hardware/software)</li> <li>• Objective assessment</li> <li>• Test slide</li> <li>• Consultation time</li> <li>• Individual account<sup>¶</sup></li> <li>• Basic configuration set<sup>¶</sup></li> <li>• Customized manual</li> <li>• Educational events (lectures, workshops etc)</li> </ul>	√ √ √ 3h - - - -	√ √ √ 5h √ √ √ 3h/year
<b>Rates*:</b> <ul style="list-style-type: none"> <li>• Wide field fluorescence microscope, fee/duration (approximate)</li> <li>• Confocal fluorescence microscope fee/duration (approximate)</li> <li>• Fee per additional person (max. 3 persons per training session)</li> </ul>	350\$/2.5h 500\$/3.5h 100\$	250\$/2.5h 350\$/3.5h 50\$

<sup>¶</sup>Provided system allows.

\*Plans are customizable. Rates are approximate only, and vary with the system and user demands. Training on other types of microscopy also available.