

Record of methods and parameters implemented during image processing

Date: _____ Experiment: _____

Image file(s): _____

Software package(s) and version number(s): _____

Implementation

Background subtraction

Algorithm name

Rolling ball subtraction

Gaussian Smooth/Subtract

Fourier filtering

Other: _____

Reportable parameters

Kernel shape: _____

Kernel size: _____

Min/Max frequency cut-offs: _____

Other: _____

Denoising

Gaussian smoothing:

Media filter:

Non-local means:

Other: _____

Kernel shape: _____

Kernel size: _____

Sigma value and smoothing factor: _____

Other: _____

Deconvolution

Wiener:

Richardson–Lucy:

Blind:

Other: _____

Measured/estimated PSF: _____

Wiener parameter: _____

Min/Max frequency cut-offs: _____

Other: _____

Intensity threshold calculation

Manual selection:

Automated threshold:

Adaptive threshold:

Other: _____

Min/max pixel intensity: _____

Automatic/adaptive threshold method: _____

Adaptive threshold neighborhood: _____

Other: _____

Object segmentation

Pixel connectivity:

Morphometric filtering:

Binary operations:

Other: _____

Pixel connectivity: _____

Morphometric parameters: _____

Upper/lower morphometric filter values: _____

Binary operation iteration number/order: _____

Other: _____

See:

Aaron, J. S. and Chew, T.-L. (2021). A guide to accurate reporting in digital image acquisition - can anyone replicate your microscopy data? *J. Cell Sci.* **134**, jcs254151. doi:10.1242/jcs.254151