

# Some of the Many Advantages of AutoDeblur

- ◆ Easiest-to-Use deconvolution product available
  - Friendly and simple user interface
  - Automated “Blind Deconvolution” requires no measuring of the Point Spread Function
- ◆ Large variety of algorithms
  - Blind Deconvolution, using Maximum Likelihood Estimation, requires no PSF measurement and offers the most robust<sup>1</sup> mathematical approach.
  - Inverse Filter is fast and robust
  - Gold’s Method is fast and commonly used in many other applications
  - Nearest Neighbors is fast
  - Detection and correction for spherical aberrations along with a spherical aberrations calculator for time saving purposes
- ◆ Works with many modalities, including:
  - Fluorescence
  - Confocal
  - Brightfield
  - Spinning disk (Yokagawa, Spinning-disk)
  - Reflected light
  - DIC
  - Hoffman
  - Darkfield
  - Electron Microscopy
  - DIC
  - Others
- ◆ Works with ordinary transmitted light brightfield microscopes, with or without staining
- ◆ Many important utilities:
  - Data correction for attenuation of light with depth into the sample
  - Data correction for camera imperfections (flat-field, bias, bad pixels, flicker)
  - Add-on option: Automatic and Manual alignment compensates for motion from live imaging, stage movement or chromatic aberrations
  - Ability to resume deconvolution from previous result, as well as pause and preview deconvolution results
  - Easy-to-use Spacings Calculator for accurate data properties
- ◆ Option to import a PSF for those who prefer to measure Point Spread Functions

**Footnote** <sup>1</sup> “Robust” means that it eliminates noise and works with a variety of sample types and difficult imaging conditions (low-light, attenuation, aberrations, etc).