

Spinning-disk confocal microscopy
**Use microscopes in your
work?**

Expansion microscopy
Differential interference contrast microscopy
Hoffman modulation contrast microscopy
Dot gradient contrast microscopy
Learn how they work.

Digital deconvolution of microscopic images
Laser-scanning confocal fluorescence microscopy
Multi-photon microscopy
**NSCI 5300: “Biological Microscopy and
Digital Imaging”**

Total internal reflection fluorescence microscopy
STORM super-resolution light microscopy
PALM super-resolution light microscopy
Fall 2017, MWF 9:05-9:55; 3 credits

STED super-resolution light microscopy
Structured-illumination microscopy
Multi-label fluorescence microscopy
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Light-sheet microscopy
Förster-resonance energy transfer microscopy
Fluorescence life-time imaging
Fluorescence recovery after photobleaching