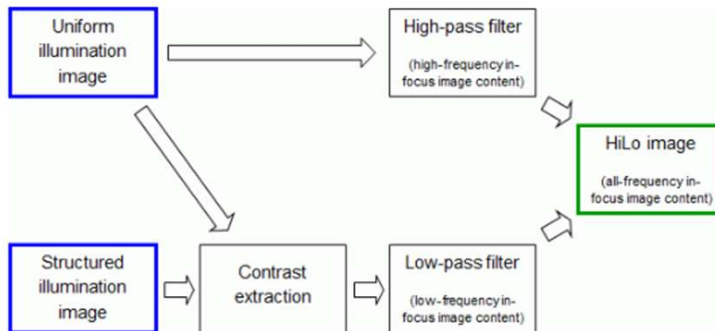


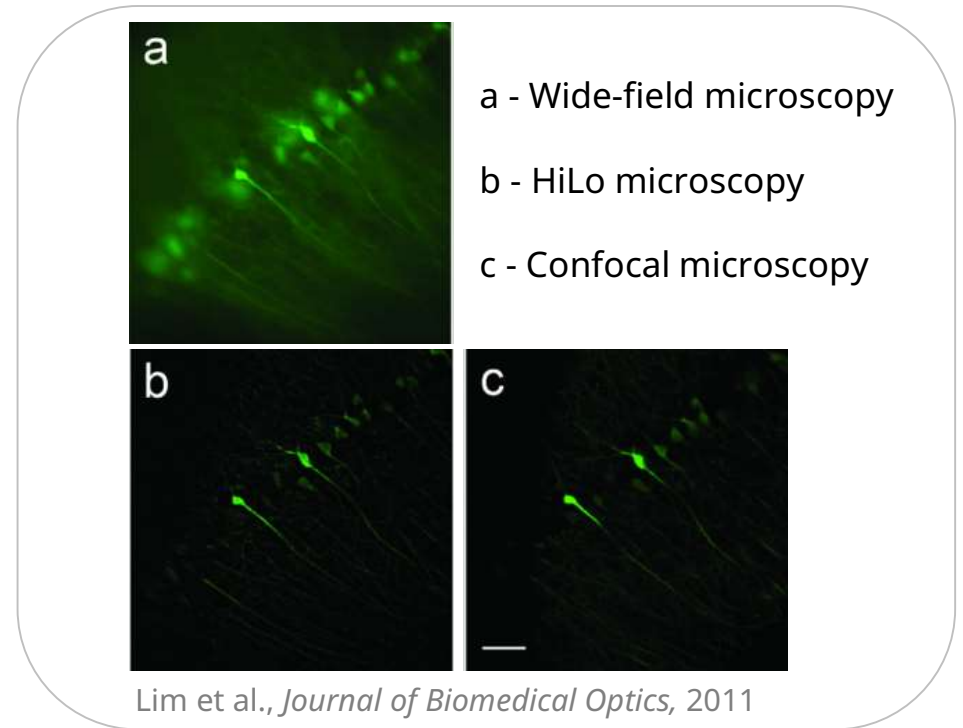
# HiLo – Unlock full-resolution optical sectioning

Thesis | SHK | WHK

**Motivation** HiLo microscopy is a fast alternative to confocal microscopy which enables full-resolution optical sectioning. It rejects the out-of-focus light contributions and optimizes the imaging contrast thereby. Uniform illumination and structured illumination are combined to achieve the necessary frequency filtering.



<https://sites.bu.edu/bi microscopy/research/hilo/>



- Tasks**
- Building up the optical setup
  - Calibrate and characterize the system
  - Test different techniques to measure the local modulation contrast