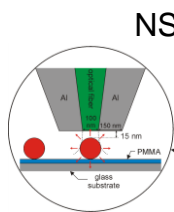


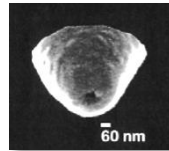
# Background Michael J. Nasse



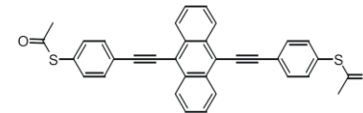
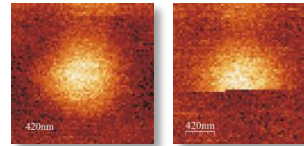
**1999–2006 High resolution / Nano-optics: Near-field Scanning Optical Microscopy (NSOM), Single molecule spectroscopy, Fluorescence, Biophotonics, 3D PSF (exp. + theory)**



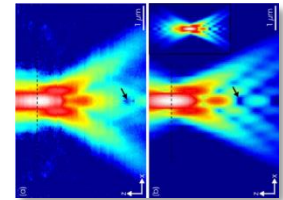
NSOM



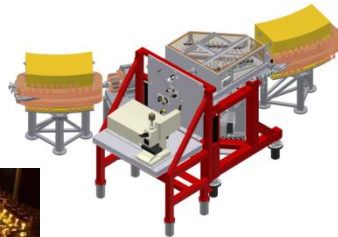
Single molecule fluorescence



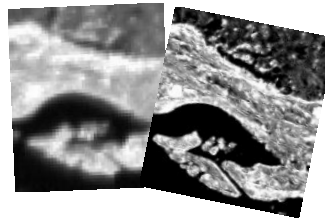
Microscope PSF



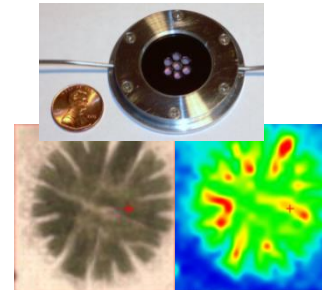
**2006–2011 Synchrotron infrared (IR) microspectroscopy and imaging (2D and 3D), Chemical imaging; Microfluidics (mid-IR flow-cell); *In vivo* bioimaging**



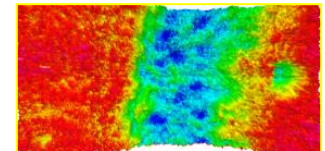
IRENI beamline



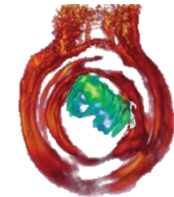
HD chem. imaging



*In vivo* IR imaging of algae

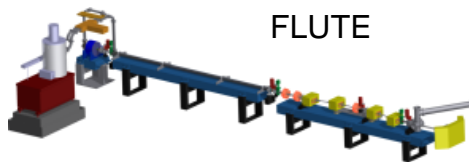


IR imaging of neurons

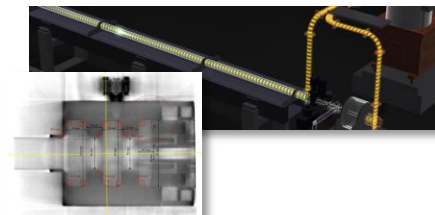


IR tomography

**2011–present FLUTE: versatile linac-based THz source Gun laser for photo-injector, Laser diagnostics & transport, THz beam transport**



FLUTE



Gun laser

