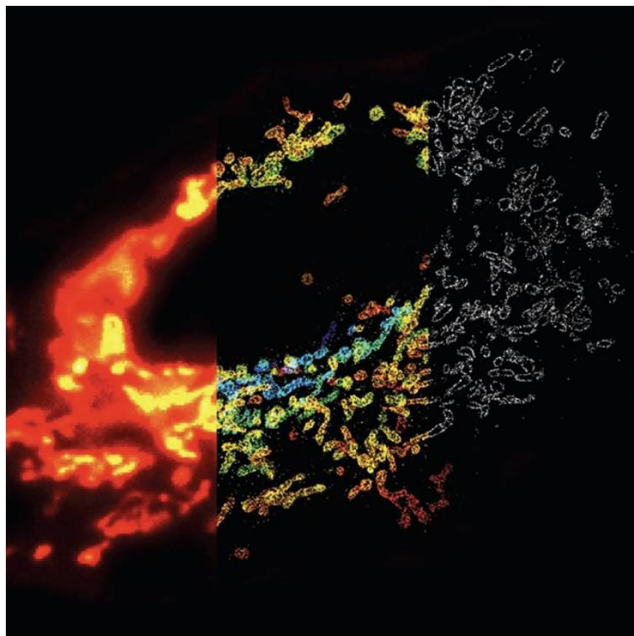


# Super Resolution Microscopy: Imaging beyond the diffraction limit



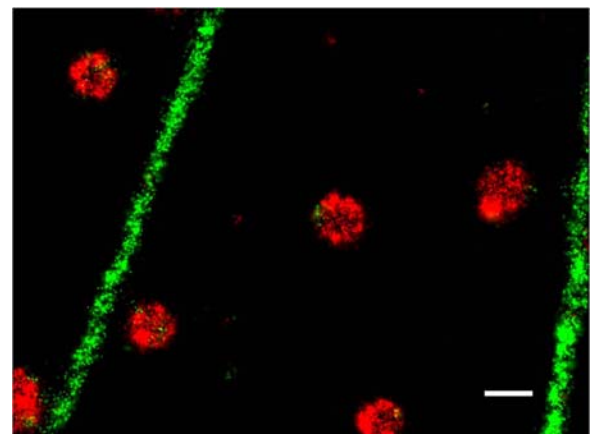
10:00 AM May 17 Bondurant Hall, G-010

Joel S. Silfies, Senior Biosystems Applications Manager, Nikon Instruments, Inc., and contributor to [microscopyu.com](http://microscopyu.com) will explain N-SIM, which improves resolution two fold over conventional fluorescence by combining structured illumination in combination with TIRF illumination, and N-STORM (Stochastic Optical Reconstruction Microscopy) which can improve resolution down to ~20 nm.



Mitochondria outer membrane protein Tom20  
Left: conventional fluorescence  
Center & right: STORM imaging

More info:  
Jacob Sawyer, Ph.D.  
[jsawyer@nikon.net](mailto:jsawyer@nikon.net)  
919-455-1988



STORM Red- Clathrin, Green- microtubules