

# Yale Microscopy Workshop

300 Cedar Street, New Haven, CT Details at: [www.microscopy.med.yale.edu](http://www.microscopy.med.yale.edu)

Two Day Symposium & Three Days of Open Access to State-of-the-Art Instruments

**June 7 - 9, 2011**

Super Resolution emphasis, including access to 6 super resolution microscopes from 4 vendors

Post acquisition Image analysis \* Demonstrations and practicals

Fully functional microscopes representing all modalities \* confocal \* two-photon LSM \* spinning-disk

Open access to equipment from multiple vendors 9-6 pm each day

Free registration online or on site in the lobby of the TAC Building

## Symposium Schedule

TAC Building Auditorium N107

**Tuesday June 7th :**

**Super Resolution Microscopy I**

2:00 pm **Advances in 3D-FPALM, STED and 3D particle tracking microscopy**  
Joerg Bewersdorf, Yale University

2:30 pm **3D PALM with Photoactivatable Fluorescent proteins**  
Hari Shroff, NIH/NIBIB

4:00 pm **Coupling nanoscopy and electron microscopy**  
Erik Jorgensen, University of Utah

**Wednesday June 8th :**

**Super Resolution Microscopy II**

2:00 pm **Nuclear compartmentalization and transcription factor selectivity**  
Jie Yao, Yale University

2:30 pm **Super resolution at Leica Microsystems - technology and applications**  
Jochen Sieber, Leica Microsystems

3:30 pm **Advances in fluorescent protein technology**  
Michael Davidson, Florida State University

4:00 pm **High resolution fluorescence microscopy by structured illumination and image inversion interferometry**  
Rainer Heintzmann, Friedrich Schiller University of Jena

**Happy Hours each day 5-6:00 PM**

## Open Access Equipment & Software

TAC 2nd Floor Med Student Teaching Labs

**Tuesday - Thursday**

Software Walk-in Clinics for Post Acquisition Image Analysis Imaris, Volocity, Columbus

Continued Access to Instrumentation throughout the day  
9:00 am - 6:00 pm TAC N221 - N239

## Technical Lectures, Practical & Demos

**Tuesday June 7th**

10:30 am Small group practical with photoconvertible fluorophores (group I)

11:00 am Spinning Disk Demonstration  
Perkin Elmer UltraView Vox - TAC N239

11:00 am Columbus software Demonstration  
Perkin Elmer Demonstration - TAC N209

**Wednesday June 8th**

10:30 am Small group practical with photoconvertible fluorophores (group II)

11:00 am Demo of Laser Scanning Cytometry for High Content Screening  
CompuCys iCys demonstration - TAC N239

11:00 am Demo of Vutara Super Resolution microscope  
Vutara demonstration - TAC N237

**Thursday June 9th**

10:30 am Small group practical with photoconvertible fluorophores (group III)

1:00 pm Lecture & Demo of Nikon N-STORM microscope  
Nikon short lecture followed by demo - TAC N221

1:30 pm Demo of AP OMX structured illumination system  
Applied Precision demonstration - SHM IE wing

2:30 pm Demo of Leica GSD ground state depletion microscope  
Leica demonstration - TAC N223

3:30 pm Demo of Leica Ti:sapph STED and CW STED microscopes  
Sequential Leica demonstrations - SHM IE wing



Supported by the Yale Rheumatic Disease Research Core Center & YSOM Office for Academic & Scientific Affairs

Please contact organizers if interested in bringing your own live samples

Co-organizers: Ann Haberman [ann.haberman@yale.edu](mailto:ann.haberman@yale.edu) Derek Toomre [derek.toomre@yale.edu](mailto:derek.toomre@yale.edu)

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**Details at: [www.microscopy.med.yale.edu](http://www.microscopy.med.yale.edu)**

*Nuclear pore complex image by Nicholas Johnson and Lindsay Shopland*