Yale Microscopy Workshop
300 Cedar Street, New Haven, CT    Details at: 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
Columbus, Imaging, Volocity, Perkin Elmer
Continued Access to Instrumentation throughout the day
9:00 am - 6:00 pm TAC N221 - N239

Technical Lectures, Practicals & Demos
Tuesday June 7th
10:30 am Small group practical with photoconvertable fluorophores (group I)
11:00 am Demo of Leica GSD ground state depletion microscope
11:00 am Demo of Leica Ti:sapph STED and CW STED microscopes

Wednesday June 8th
10:30 am Small group practical with photoconvertable fluorophores (group II)
11:00 am Demo of Leica GSD ground state depletion microscope
11:00 am Demo of Vutara Super Resolution microscope

Thursday June 9th
10:30 am Small group practical with photoconvertable fluorophores (group III)
1:00 pm Lecture & Demo of Nikon N-STORM microscope
1:30 pm Demo of AP OMX structured illumination system
2:30 pm Demo of Leica Tisapph STED and CW STED microscopes
3:30 pm Demo of Leica STORM 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  Derek Toomre derek.toomre@yale.edu
Joerg Bewersdorf joerg.bewersdorf@yale.edu

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Nuclear pore complex image by Nicholas Johnson and Lindsay Shopland