

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 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

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Details at: www.microscopy.med.yale.edu

Nuclear pore complex image by Nicholas Johnson and Lindsay Shopland