Yale Microscopy Workshop
300 Cedar Street, New Haven, CT  Details at: www.microscopy.med.yale.edu
Three Days Hands-on Access to State-of-the-Art Instruments
Two Day Symposium

June 9 - 11, 2009
Live Samples: Bring your own or see ours
Post acquisition Image analysis * Technical lectures and practicals
Fully Functional Confocals * Two-Photon LSMS * Spinning-Disks * Automated Widefield Microscopes

Access to equipment from multiple vendors 9-5 pm each day
Free registration online or on site in the lobby of the TAC Building

Symposium Schedule
TAC Building Auditorium N107
Tuesday June 9th :
Imaging Development I
2:00 PM  Cytoskeletal Dynamics During Drosophila Oogenesis
Lynn Cooley, Ph.D.
2:30 PM  TBD
Allan Spradling , Ph.D.
Super Resolution Approaches
4:00 PM  Three Dimensional Super Resolution Microscopy of Focal Adhesions
Pakorn Kanachanawong , Ph.D.

Wednesday June 10th :
Imaging Development II
2:00 PM  Imaging Axon Regeneration In Vivo
Marc Hammarlunnd, Ph.D.
2:30 PM  Imaging the Dynamics of Embryonic Development
Scott Fraser, Ph.D.
4:00 PM  Multidimensional Visualization of Zebrafish Embryogenesis by Multidirectional Selective Plane Illumination Microscopy (mSPIM)
Jan Huisken, Ph.D.

Lectures, Practicals & Technical Demos
Tuesday June 9th
11:00 AM  Spinning Disk Demonstration
Perkin Elmer UltraView Vox - TAC N239
12:00 PM  Time Correlated Single Photon Counting: Use for FLIM, FRET and FCS
Thomas Pingle, LaVision BioTec
Lecture in N207, followed by FLIM demo in N237
1:00 PM  Laser Microdissection Demonstration
Leica LMD demonstration - TAC N221
1:00 PM  Getting Closer to Reality Through Deconvolution: The Most Payout for the Photons You Put In
Jeff Reece, Reecent Technologies/SVI
Lecture on Huygens Deconvolution - TAC N213

Wednesday June 10th
9:30 AM  Choosing Imaging Parameters for Time Resolved Imaging of Live Samples for Cell Tracking
Bill Mohler, Ph.D.
N203
10:30 AM  Hands-on Practical : 4D Imaging of Fluorescent Drosophila Embryos (group I)
11:00 AM  Demo of Laser Scanning Cytometry for High Content Screening
CompuCyte iCys demonstration - TAC N239
1:00 PM  Practical on Image Analysis for Cell Tracking (group I)

Thursday June 11th
10:30 AM  Hands-on Practical : 4D Imaging of Fluorescent Drosophila Embryos (group II)
1:00 PM  Practical on Image Analysis for Cell Tracking (group II)

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, Velocity, MetaMorph, Huygens
Continued Access to Instrumentation throughout the day
9:00 AM - 5:00 PM  TAC N221 - N239

Additionally supported by the Yale Center for Rheumatic Diseases
Please contact organizers if interested in bringing your own live samples
Organizer: Ann Haberman  ann.haberman@yale.edu  Co-organizer: Derek Toomre  derek.toomre@yale.edu

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