3RD NIC@IIT

NANOSCOPY 2.0

PRACTICAL WORKSHOP on ADVANCED MICROSCOPY 13-16 December 2016

the Steering Committee: A. Diaspro, P. Bianchini, F. Cella Zanacchi, G. Vicidomini, CJR Sheppard

Tuesday 13th, 14.00 to 19.00

KEYNOTE LECTURES

Sala delle Grida - City Center - Piazza De Ferrari, Genova

Open access session

- **David M. Jameson,** University of Hawaii, USA

A Nano-History of Fluorescence

- **Enrico Gratton, University of California Irvine, USA**

Mechanisms of molecular transport in live cells

- **Grace Huynh, Massachusetts Institute of Technology, USA**

Expansion Microscopy for understanding complex biological systems'

- **Michelle Digman,** University of California Irvine, USA

Spatial-temporal imaging methods and fluorescence lifetime analysis to measure p53 protein dynamics in living cells

- **Francisco Barrantes,** University of Buenos Aires, Argentina

Superresolution microscopy of synaptic proteins

- **Martin Van de Ven,** Universiteit Hasselt, Belgium

Discovering Detail: Spectroscopic Rulers Bridge Nanoscale Gaps Via Förster Dependence of descriptors of co-clustering and co-localization on spatial and temporal resolution.

- **Alberto Diaspro,** Istituto Italiano di Tecnologia, Italy

The Extraordinary Microscope.

Wednesday 14th to Friday 16th, 9:00 - 19:00

PRACTICAL SESSIONS

Nikon Imaging Center, -1 floor

Closed sessions for registered students.

Instructors and Lecturers:

Nanoscopy team @IIT, David Jameson, Martin Van de Ven, Colin JR Sheppard, Francisco Barrantes, Michelle Digman, Beniamino Barbieri, Giacomo Cozzi, Marco Cicuttin, Enrico Gratton, Grace Huynh

Practical workshop: Wednesday morning tutorials

9.00 - 9.45	Michelle Digman	10.30 - 11.15	David Jameson
9.45 - 10.30	Martin Van de Ven	11.15 - 12.00	Paolo Bianchini

Practical workshop: Hands on, the instruments

N1:	Nikon multicolor 3D N-STORM	N6:	Nikon Time lapse
N2:	IIT custom SPIM, IML-SPIM	N7:	Fast Confocal Nikon spinning disk
N3:	IIT custom gSTED, CARMA-Gi	N8:	IIT custom 2C 3D pulsed STED
N4:	Nikon N-SIM	N9:	Nikon A1R MP, ISS fast FLIM and FCS
N5:	Nikon A1 spectral confocal	N10:	ISS ChronosFD

Registration Fees:

PhD students 150 € (IIT/SIOF member 100€)
Post doc 200 € (IIT/SIOF member 150€)
Professional or companies 500€

Registrations to "lauretta.galeno@iit.it" (in copy to "alberto.diaspro@iit.it" and "manuela.salvatori@iit.it") - mandatory subject "3rd NIC at IIT practical workshop"

		Wednesday 14th		Thursday 15th			Friday 16th		
		9 - 12	13.30 - 16.30	16.45 - 18.45	9 - 12	13.30 - 16.30	16.45 - 18.45	9 - 12	13.30 - 16.30	16.45 - 17.45
G1	Tutorials	N1	N2	N3	N4	N5	N6	N8	N9
G2		N2	N3	N4	N6	N7	N9	N10	N1
G3		N4	N5	N6	N7	N8	N10	N1	N2
G4		N5	N6	N7	N9	N1	N2	N3	N4
G5		N7	N8	N9	N1	N2	N3	N4	N6
G6		N8	N9	N1	N2	N3	N4	N6	N7
G7		N10	N1	N2	N3	N4	N5	N7	N8