

# 3<sup>RD</sup> 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*

<http://mix.iit.it>



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 vandeVen**, 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 14<sup>th</sup> to Friday 16<sup>th</sup>, 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 vandeVen, Colin JR Sheppard, Francisco Barrantes, Michelle Digman, Beniamino Barbieri, Giacomo Cozzi, Marco Cicuttin, Enrico Gratton, Grace Huynh

*Practical workshop:* Wednesday morning tutorials

9.00 - 9.40	Michelle Digman	11.00 - 11.40	Peter Saggau
9.40 - 10.20	Martin vandeVen	11.40 - 12.00	Paolo Bianchini
10.20 - 11.00	David Jameson		

*Practical workshop:* Hands on, the instruments

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

### 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](mailto:lauretta.galeno@iit.it)" (in copy to

[alberto.diaspro@iit.it](mailto:alberto.diaspro@iit.it)" and "[manuela.salvatori@iit.it](mailto:manuela.salvatori@iit.it)") -

mandatory subject "3rd NIC at IIT practical workshop"

	Wednesday 14th			Thursday 15th			Friday 16th		
	9.00-12.00	13.30-16.00	16.15-18.45	9.15-12.00	13.30-16.00	16.15-18.45	9.15-12.00	13.30-16.00	16.15-17.45
G1	Tutorials	N1	N2	N3	N4	N5	N6	N8	N9
G2		N3	N4	N5	N6	N7	N8	N9	N10
G3		N4	N5	N6	N7	N8	N10	N1	N2
G4		N5	N6	N7	N9	N10	N1	N2	N4
G5		N7	N8	N9	N10	N1	N2	N3	N5
G6		N8	N9	N10	N1	N2	N3	N4	N6
G7		N9	N10	N1	N2	N3	N4	N5	N8
G8		N10	N1	N2	N3	N4	N5	N6	N7

