

Transnational Access at LAMBS facility

Claudio Canale¹, Paolo Bianchini² and Alberto Diaspro^{1,2}

Department of Physics, University of Genova, via Dodecaneso 33, 16146, Genova. Italy

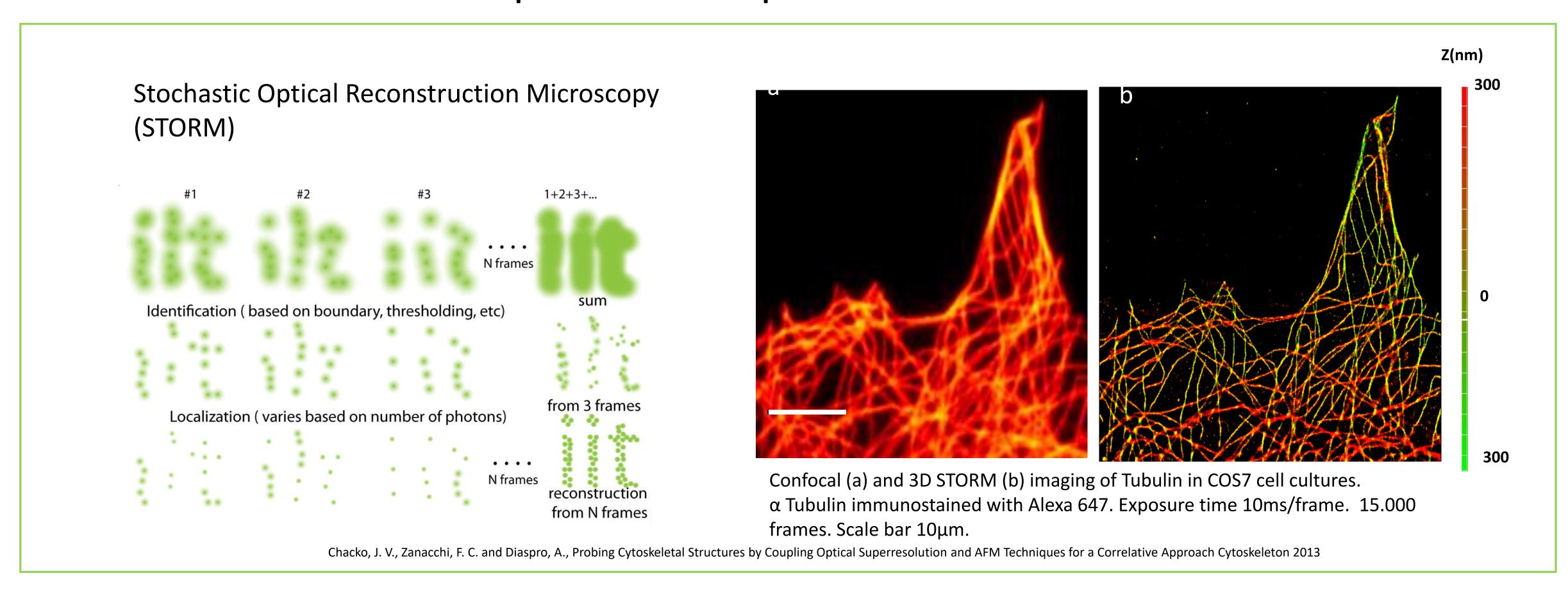
Department of Nanophysics, Istituto Italiano di Tecnologia, via Morego 30, 16163, Genova, Italy

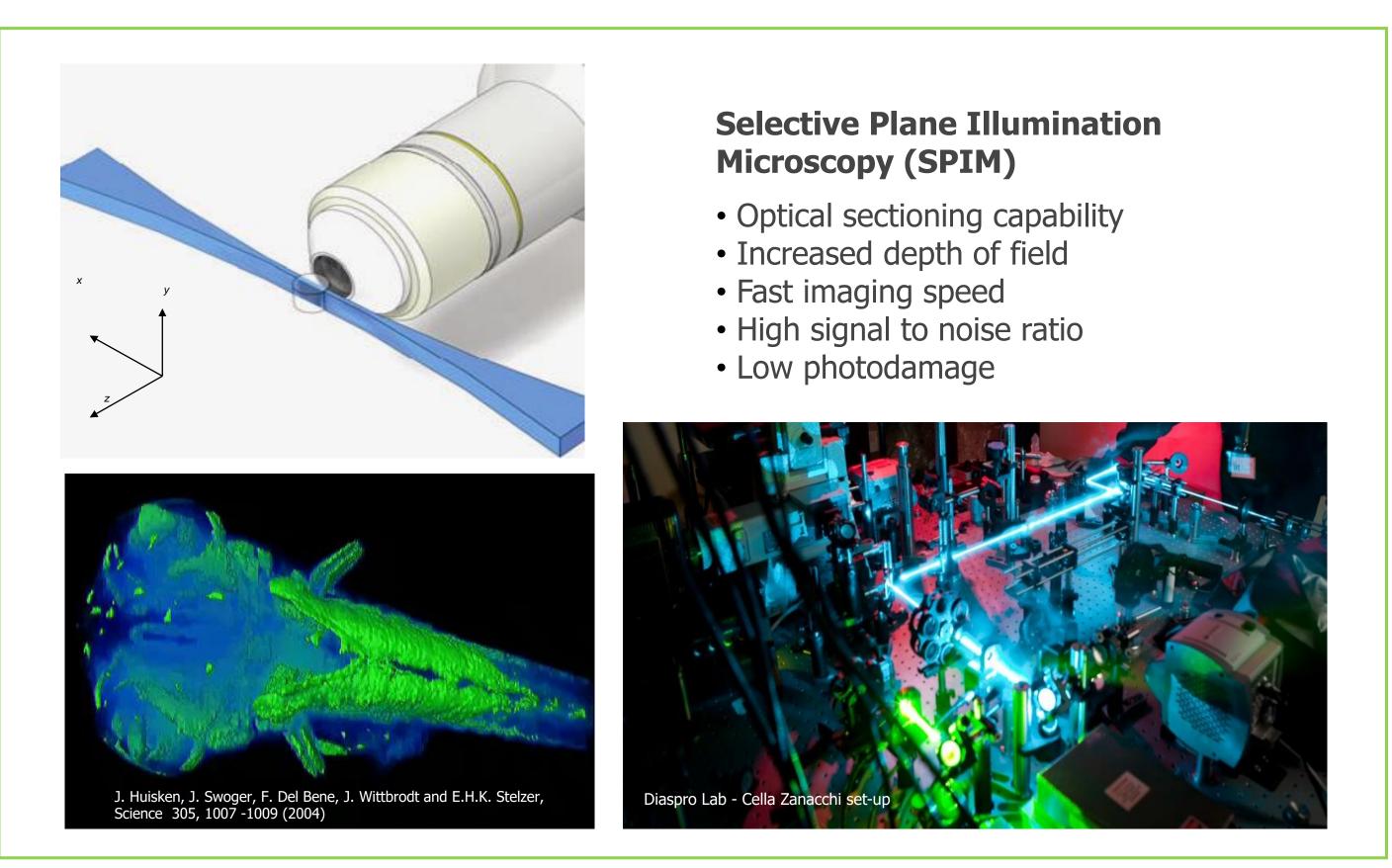
The Laboratory for Advanced Microscopy Bioimaging Spectroscopy (LAMBS) is located in Genoa (Italy) and is based on the collaboration between two institutions well consolidated in the Genoa Area: the University of Genoa and Istituto Italiano di Tecnologia (IIT).

The infrastructure has two different installations: The first, DIFILAB, is a new laboratory at the Physics Department of the University of Genoa, and the second, is the Nanoscopy Lab at IIT.

We offer the opportunity to exploit our technologies and expertise in the frame of MOSBRI Transnational Access (TNA). In particular, advanced optical fluorescence techniques such as **confocal and multiphoton resonant scanner microscopy, N-STORM, N-SIM, and STED super-resolution microscopy, fast-FLIM, and custom-made IML-SPIM**. Furthermore, the LAMBS facility is equipped with advanced integrated systems for the acquisition of correlative **AFM-STED** images, and **AFM-FLIM** images.

Advanced optical techniques are available in TNA Access











Visit the website www.mosbri.eu for further details.

Contacts: claudio.canale@fisica.unige.it paolo.bianchini@iit.it





Lifetime analysis and ISM the first detector array specifically designed for microscopy FLIM FLISM 3.5 279 940 CLSM Tubulin labelled with Abberior STAR red. Pixel dwell time: 100 µs. Pixel size: 30 nm. Image format 500x500 pixels. Excitation

Castello, M.*, Tortarolo, G.*, . and Vicidomini, G, "A robust and versatile platform for image scanning

power Pexc= 500 nW. Scale bar: 1 μm

microscopy enabling super-resolution FLIM". Nat. Methods (2019)