

Invited speakers

- *Prof. Giuseppe Gigli*
- *Prof. Enzo Marinari*
- *Prof. Michele Ortolani*
- *Prof. Giancarlo Ruocco*

Workshop chair Dr. Alessia Cedola

Programme

- 13:30 – 14:00 *Welcome by Prof. Fabrizio Illuminati and Prof. Daniele del Re*
- 14:00 – 14:15 **Prof. Enzo Marinari** (invited), [Department of Physics, Sapienza University](#)
- 14:15 – 14:30 *Making Scrambled Light Work: Statistical Physics Tools in Photonics*, **Dr. Luca Leuzzi**, [CNR-Nanotec](#)
- 14:30 – 14:45 *Autocorrelation properties in disordered photonics and fluorescence imaging*, **Dr. Daniele Ancora**, [CNR-Nanotec](#)
- 14:45 – 15:00 **Prof. Michele Ortolani** (invited), [Department of Physics, Sapienza University](#)
- 15:00 – 14:15 *The Microenvironment as a Master Regulator of Cell Behaviour*, **Dr. Barbara Cortese**, [CNR-Nanotec](#)
- 15:15 – 15:30 *Confined Liquids: a new route for smart devices*, **Dr. Ilenia Viola**, [CNR-Nanotec](#)
- 15:30 – 15:45 **Prof. Giuseppe Gigli** (invited), [Department of Mathematics & Physics, University of Salento](#)
- 15:45 – 16:15 *Coffee Break*
- 16:15 – 16:30 *From Theory to Tissue: Validation of Diffusion MRI Models*. **Dr. Silvia Capuani**, [CNR-ISC](#)
- 16:30 – 16:45 *Multimodal approach for biomedical application*, **Dr. Michela Fratini**, [CNR-Nanotec](#)

- 16:45 – 17:00 *Restoring Muscle Balance: Mechanisms and Therapeutic Targets in Duchenne Muscular Dystrophy*. **Dr. Viviana Moresi**, [CNR-Nanotec](#)
- 17:00 – 17:15 *X-rays for the human exposome*. **Dr. Fabrizio Bardelli**, [CNR-Nanotec](#)
- 17:15 – 17:30 **Prof. Giancarlo Ruocco** (invited), [Center for Life Nano- & Neuro-Science \(IIT-Rome\)](#)
- 17:30 – 17:45 *Soft and living matter systems: from bacteria-powered micromotors to fish shoals*. **Dr. Claudio Maggi**, [CNR-Nanotec](#)
- 17:45 – 18:00 *Optics, microfabrication and synthetic biology as tools to study the bacterial motility*, **Dr. Silvio Bianchi**, [CNR-Nanotec](#)
- 18:00 – 18:15 *CNR Nanotec activity @IIT CLN2S: Microscopy, Early Diagnosis, and Computing with Light*, **Dr. Marco Leonetti**, [CNR-Nanotec](#)
- 18.30 – *Concluding remarks and farewell aperitif*