



**IV Scuola Nazionale  
Biosensori Ottici e Biofotonica**  
Giugno 6 - 10, 2022 – Ischia (NA)

**Programma**

**Lunedì 6 Giugno 2022**

13:00-14:30	<b>Benvenuto</b>
14:30-15:30	Ambra Giannetti (IFAC-CNR) <i>Molecular recognition elements for biosensing: principles and applications</i>
15:30-16:30	Genni Testa (IREA-CNR) <i>Microfluidics and Optofluidics: Fundamentals and applications</i>
16:30-18:30	<b>Formazione dei gruppi di lavoro</b>

**Martedì 7 Giugno 2022**

9:30-10:30	Francesco Baldini (IFAC-CNR) <i>Absorption and fluorescence: principles and applications to chemical and biochemical sensors</i>
10:30-11:30	Raffaele Velotta (UNINA) <i>Localised Surface Plasmon Resonance in biosensing</i>
11:30-12:00	<b>Pausa caffè</b>
12:00-13:00	Elisa Michelini (UNIBO) <i>Bio-chemiluminescent biosensors: principles and applications</i>
13:00-14:30	<b>Pausa pranzo</b>
14:30-15:30	Fabrizio Giorgis (POLITO) <i>Raman and SERS spectroscopy for biosensing</i>
15:30-16:30	Maria Grazia Manera (IMM-CNR) <i>Magneto-plasmonic nanomaterials: novel routes in optical chemo- and bio-sensing</i>
16:30-18:30	<b>Lavoro di gruppo</b>

**Mercoledì 8 Giugno 2022**

9:30-10:30	Anna Chiara De Luca (IEOS-CNR) <i>Raman and SERS spectroscopy for cancer cell identification and imaging</i>
10:30-11:30	Ranieri Bizzarri (UNIFI) <i>Super-resolution microscopy to probe the intracellular environment at nanoscale</i>
11:30-12:00	<b>Pausa caffè</b>
12:00-13:00	Andrea Cusano (UNISANNIO) <i>Lab on Fiber Optodes: Towards multifunctional point of care platforms</i>
13:00-14:30	<b>Pausa pranzo</b>
14:30-15:30	Giuseppe Barillaro (UNIFI) <i>Point-of-need imaging and (bio)sensing with micro and nanostructured silicon</i>
15:30-16:30	Luca De Stefano (ISASI-CNR) <i>Flexible biosensors</i>
16:30-18:30	<b>Lavoro di gruppo</b>

### Giovedì 9 Giugno 2022

9:30-10:30	Pietro Gucciardi (IPCF-CNR) <i>Raman and SERS spectroscopy in an optical trap for applications to biomolecular detection, micro and nanoparticles analysis</i>
10:30-11:30	Francesco Ricci (UNIROMA2) <i>DNA-based nanoswitches and nanodevices for sensing applications</i>
11:30-12:00	<b>Pausa caffè</b>
12:00-13:00	Ilaria Rea (ISASI-CNR) <i>Hybrid nanomaterials in biomedicine</i>
13:00-14:30	<b>Pausa pranzo</b>
14:30-15:30	Alberto Diaspro (IIT, UNIGE) <i>The thinking microscope. A multimodal optical approach boosted by artificial intelligence</i>
15:30-16:30	Roberto Rella (IMM-CNR) <i>Low-cost nanofabrication methods of large-area plasmonic arrays biosensors</i>
16:30-18:30	<b>Lavoro di gruppo</b>

### Venerdì 10 Giugno 2022

9:30-11:30	Presentazione dei lavori di gruppo
11:30-12:00	<b>Pausa caffè</b>
12:00-13:00	Premiazione del migliore lavoro di gruppo e termine dei lavori