

**DIMET COURSE**

*Seminar on Imaging in Translational Medicine*

Organized by: Giorgio Cattoretti and Francesco Mantegazza

**PROGRAM**

Tuesday, April 20, 2021 – Italy time (GMT+2)

Zoom Meeting

**ADVANCED MICROSCOPY TECHNIQUES**

- 8.45 – 9.00     **Introduction**  
                  **Giorgio Cattoretti**, School of Medicine and Surgery, University of Milano-Bicocca, Italy.
- 9.00 – 10.45    **“More than an expensive magnifying glass: functional dynamic imaging by fluorescence microscopy”**  
                  **Valeria Caiolfa**, Ospedale San Raffaele, Milan, Italy
- 10.45 – 11.00    BREAK
- 11.00 – 12.45   **“AI in clinical decision support - chances and problems”**  
                  **Stefan Bonn**, Center for Molecular Neurobiology Hamburg (ZMNH), Germany
- 12.45 – 14.00    BREAK
- 14.00 – 15.45   **“Calcium imaging in vivo using genetically encoded calcium indicators (GECI): from molecular biology to fluorescence microscopy”**  
                  **Alex Costa**, Dipartimento di Bioscienze, University of Milan, Italy

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**OPTICAL AND NON OPTICAL IMAGING**

- 9.00 – 10.45    **“Single particle cryo-electron-microscopy: a true Structural Biology revolution”**  
                  **Martino Bolognesi**, Department of Biosciences, CRC R.E. Invernizzi, University of Milan, Italy
- 10.45 – 11.00    BREAK
- 11.00 – 12.45   **“From Single Molecules to Single Cells: Imaging Protein-Nucleic Acid Dynamics”**  
                  **David Rueda**, Department of Infectious Disease, Imperial College, London, UK
- 12.45 – 14.00    BREAK
- 14.00 – 15.45   **“Biomedical application of Atomic Force Microscopy”**  
                  **Malgorzata Lekka**, Polish Academy of Sciences, Krakow, Poland.