

## XXIX SIBPA-IVSLA International School of Pure and Applied Biophysics



Biomimetic models for exploring membrane biophysical properties in health and disease

**Venice**

Jan 27-31 2025

The school focuses on membrane remodeling and trafficking, spanning different models of eukaryotic (plasma) membranes, ranging from **supported lipid bilayers**, to **small/large unilamellar vesicles**, **giant plasma membrane vesicles** and **cell membranes of living cells (including 2D and 3D cell lines)**.

Attendees will be introduced to a variety of techniques suitable for studying the structural and chemo-mechanical properties of lipid/protein nanodomains and their dynamic remodeling with high spatial and temporal resolution to correlate it with cell functions.

**The program includes:**

**Lectures, experimental demos, round tables, case studies**

### **Scientific Directors**

*Loredana Casalis, Pietro Parisse, Valeria Rondelli*

### **SIBPA-IVSLA Schools Director**

*Giorgio Giacometti*

### **Confirmed Lecturers**

*David Alsteens, UC Louvain*

*Ori Avinoam, Weizmann Institute*

*Andreas Bausch, Technical University Munich*

*Patricia Bassereau, Institute Curie Paris*

*Roberto Cerbino, University of Wien*

*Wojciech Chrzanowski, University of Sydney*

*Xabier Contreras, University of Pais Basque*

*Alberto Diaspro, University of Genoa and IIT*

*Luca Monticelli, CNRS Bordeaux*

*Maria Grazia Ortore, University of Ancona*

*Patricia Lozada Perez, University Libre Bruxelles*

*Petra Schwille, Max Planck Munich*

*Raya Sorkin, University of Tel Aviv*

*Kislon Voitchovsky, Durham University*