

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, hands-on trainings, 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, Marche Polytechnic University

Patricia Lozada Perez, University Libre Bruxelles

Petra Schwille, Max Planck Munich

Raya Sorkin, University of Tel Aviv

Kislon Voitchovsky, Durham University