

XXIII INTERNATIONAL SCHOOL OF PURE AND APPLIED BIOPHYSICS

(<http://tiny.cc/BiophysicSchool-2019>)



Venice (Italy) - Palazzo Franchetti
4-8 February 2019

Emerging Tools in Biomechanics: from tissues down to single molecules

Mechanical properties have a key role in biological processes. At the interface between biology, physics, and mechanics the school will survey recent advances and the emerging techniques able to probe mechanical properties of biological material. Combining lectures, application talks and hands-on training, the school will introduce the topic at different length scales, from molecular and sub-cellular approaches (Atomic Force Microscopy, Acoustic Force Spectroscopy), to single cells (Brillouin microspectroscopy, MEMS) also extending towards multicellular organization and tissues (nanoindentation, ultrasonic micro-elastography). Of note, in addition to theoretical lectures, world leading companies will provide access to unique state of the art instrumentation to perform practical activities during the school.

SCIENTIFIC COORDINATORS:

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INVITED TEACHERS:

Elisa CABERLOTTO	Paris (France)
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Francesca PALOMBO	Exeter (UK)
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DIRECTOR OF THE SCHOOL:

Giorgio GIACOMETTI IVSLA & Uni. Padua (Italy)

SUPPORTS FOR PARTICIPANTS:

up to 20 bursaries are available for every registered students

HANDS-ON ACTIVITIES PROVIDED BY:

 **LUMICKS**
Capture Molecular Interactions

 **OPTICS**

 **OLYMPUS**

 **KLA Tencor**

 **nanosurf**

