

XVIII School of Pure and Applied Biophysics



Venice, - Campo Santo Stefano, January 27th-31th, 2014

Nanomechanics in biomolecular adhesion

Cell adhesion to matrix, neighboring cells, or pathogens plays a pivotal role in many biological processes. Early macroscopic methods of quantifying adhesion led to the development of quantitative models of cell adhesion and migration. The recent development of sensitive probes to manipulate adhesion at protein level has provided quantitative information about the forces modulating intermolecular adhesion, revealing much greater functional diversity in the mechanobiology of cell adhesion. The school will treat theoretical and experimental methods that proved to be useful in identifying force-dependent molecular properties that are central to the biological activity of adhesion proteins.

Link

<http://venice2014.mechanobiology.eu/>

Info

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- Francesco Difato – IIT, Genova (Italy)
- Giorgio M. Giacometti – IVSLA and University of Padua
- Miklos Kellermayer – Semmelweis University, Budapest (Hungary)
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Coordinators

- Dr Massimo Vassalli – Consiglio Nazionale delle Ricerche
- Dr Francesco Difato – Istituto Italiano di Tecnologia

Sponsors



Agilent Technologies



Teachers

- Laurent Blanchoin – iRTSV, CEA, Grenoble (France)
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