

XVIII School of Pure and Applied Biophysics



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

Nanomechanics in biomolecular adhesion

Cell adhesion to matrix, other cells, or pathogens plays a pivotal role in many crucial biological processes. Early macroscopic methods of quantifying adhesion led to the development of quantitative models of cell adhesion and migration. The more recent use of sensitive probes to manipulate adhesion proteins has quantified the necessary forces modulating the intermolecular adhesion, and revealed much greater functional diversity respect to population average measurements 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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Coordinators

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- Dr Francesco Difato – Istituto Italiano di Tecnologia

Sponsors



Teachers

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