internal seminar

Biometra seminars

JUN 28, 2022 – 1:30 PM
AULA C, LITA Segrate

"EPPUR SI MUOVE"
DYNAMICS AND RECOGNITION IN BIOMOLECULES

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Biological macromolecules are constantly subject to structural fluctuations and spatial rearrangements on a variety of timescales, ranging from picoseconds to seconds. Despite the importance of macromolecular structures is widely recognized by the scientific community that investigates biological and biomedical problems, the dynamics that regulates their breathing between multiple conformations is still considered a marginal aspect of their biological functionality. Such dynamics can be investigated via experimental as well as via computational techniques, being able to provide an atomic-level interpretation of experimental observables or to predict physical properties of the molecular systems under investigation. In the present seminar, two ongoing computational projects covering both these aspects will be presented, one referred to the prediction of long non-coding RNAs (lncRNAs) structure and spatial organization, the other to the atomic level interpretation of the pharmacological action of the drug SRT2104 in the treatment of Duchenne Muscular Dystrophy.

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