Biologia Computazionale e di Sistema

Incontro annuale del Gruppo di interesse della Società Italiana di Biochimica e Biologia Molecolare (SIB)
Co-organizzato da Progetto Bandiera InterOmics
e Istituto di Biologia e Patologia Molecolari del CNR

CNR, Aula Bisogno, Piazzale Aldo Moro 7 – 00185 Roma

10:15-10:30 – Welcome

10:30-13:20 – Session 1: Genome analysis, mutations and disease

10:30-11:30 – Marco Punta (The Institute for Cancer Research, London - Centre for Evolution and Cancer)
Cancer genomics, cancer vaccines and cancer resistance mutations

11:30-11:50 – Fabio Polticelli (Università di Roma Tre)
Identification and function prediction of an elusive HEAT repeats domain of Huntingtin

11:50-12:10 – Giovanni Minervini (Università di Padova)
Genotype-phenotype relations of the von Hippel-Lindau tumor suppressor inferred from a large-scale analysis of disease mutations and interactors

12:10-12:40 – Coffee-Break

12:40-13:00 – Valerio Marino (Università di Verona)
Evolutionary-conserved structural communication in two Neuronal Calcium Sensor proteins investigated by SNP analysis

13:00-13.30 – Pasqualina D'Ursi – Federica Chiappori (CNR-ITB)
Computational studies and surface plasmon resonance in rescuing pathway impairments in CFTR: identification of key druggable targets by interaction network analysis and drug repositioning.

13:30-17:00 – Session 2: Protein structure, function and dynamics

13:30-13:50 – Castrense Savojardo (Università di Bologna)
Computing protein-protein interaction sites from structure and sequence

13:50-14:10 – Marco Necci (Università di Padova)
Integrated resources for the study of protein intrinsic disorder

14:10-15:30 – Lunch

15:30-15:50 – David Sasah Staid (Università "Sapienza" di Roma)
Identification of point mutations related to drug resistance in bacteria

15:50-16:10 – Giacomo Janson (Università "Sapienza" di Roma)
How to improve protein homology modelling within MODELLER

16:10-16:30 – Leonardo Guidoni (Università dell'Aquila)
Atomistic simulations in Biochemistry

16:30-17:00 – Veronica Morea, Allegra Via (CNR-IBPM)
Activities of the Bioinformatics group @IBPM-CNR

17:00-17:15 – Conclusions