

CNR – Istituto di Struttura della Materia

nell'ambito del progetto

Deposizioni per ElectroSpray Ionization e biosensori (DESIR):
Avviso Pubblico "Progetti di Gruppi di Ricerca LR13/2008"-Regione Lazio

SEMINARIO

Biblioteca Edificio 15
Area della Ricerca di Roma 1
Giovedì, 6 Febbraio 2020
14:00 a.m.

Dr.sa Anna Valenti

CNR - Istituto di Bioscienze e Biorisorse

DNA structure, dynamics and function

DNA topology plays essential roles in several fundamental biological processes, such as DNA replication, recombination, and transcription. In all organisms DNA topology is modulated by specialized enzymes (topoisomerases) and the supercoiling degree of defined genome regions change according to physiological and environmental conditions. Elucidation of structural properties of DNA molecules with different topology may thus help to better understand genome functions. Furthermore, the study of supercoiling behavior is an important avenue of future research, because it heavily affect nucleic acids properties both *in vivo* (e.g., transcription and replication), and *in vitro* studies (single-molecule approach).

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