



UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II
DIPARTIMENTO DI FARMACIA

AVVISO DI SEMINARIO

Structural and biophysical studies of G-quadruplex DNA in complex with porphyrin ligands

Water-soluble porphyrins have been shown to inhibit cancer growth, possibly due to their involvement in the binding, stabilization, and structural alteration of DNA in telomeres and oncogene promoters. Telomeres protect termini of eukaryotic chromosomes from degradation and fusion. Telomeres and the enzyme telomerase that is responsible for their maintenance play an important role in maintaining genomic stability and cell mortality, as evidenced by the 2009 Nobel Prize in Medicine. Porphyrins have the necessary pharmacological properties to be successful drugs. Knowledge of the molecular details of quadruplex - porphyrin interactions will be essential for improving the affinity and selectivity of quadruplex ligands as potential anticancer agents.

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Martedì 4 dicembre 2018 - ore 15.00
Dipartimento di Farmacia - Aula A