



UNIVERSITÀ DEGLI STUDI
MAGNA GRÆCIA DI CATANZARO



DOTTORATO DI RICERCHE
IN SCIENZE DELLA VITA

UNIVERSITÀ DEGLI STUDI MAGNA GRÆCIA DI CATANZARO
- DIPARTIMENTO DI SCIENZE DELLA SALUTE -
- DOTTORATO DI RICERCHE IN SCIENZE DELLA VITA –
- SCUOLA DI SPECIALIZZAZIONE IN FARMACIA OSPEDALIERA -

NON-CANONICAL DNA STRUCTURAL MODULES: FROM A NOVEL TO AN INNOVATIVE PERSPECTIVE FOR ANTICANCER CHEMOTHERAPY



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Sixty year after the discovery of the double helical structure of DNA, the importance of alternative nucleic acid arrangements in regulating the cell cycle progression is clearly emerging.

We will use a tetrahelical structure, called G-quadruplex, as a model to explore the potential of these novel structures to be considered potential new targets for anticancer chemotherapy.

In a medicinal chemistry perspective we will discuss on the characterization of physiologically relevant DNA G-quadruplexes and on the challenges associated to the identification of proper selective ligands. Finally, we will show how this approach can be applied in a different animal system (dog) and how it can be validate as translational model.

CAMPUS UMG DI CATANZARO – EDIFICIO CLINICO
AULA C 1 – CORPO C – LIVELLO 3 – 1 GIUGNO 2016, ORE 9:30

HOST: STEFANO ALCARO alcaro@unicz.it

SEMINARIO APERTO A DOTTORANDI, SPECIALIZZANDI E STUDENTI CdL IN FARMACIA, BIOTECNOLOGIE E BIOTECNOLOGIE APPLICATE ALLA NUTRIZIONE