SAPIENZA UNIVERSITÀ DI ROMA

DIPARTIMENTO DI SCIENZE BIOCHIMICHE A. ROSSI FANELLI

Dottorato di Ricerca in Biochimica

CRiN CENTRO DI RICERCA IN NEUROBIOLOGIA DANIEL BOVET

AVVISO DI SEMINARIO

27 Settembre 2019 — 12:00

Aula A (CU010)
Dipartimento di Scienze Biochimiche

Prof. Guy Poirier

CHU de Québec
Laval University – Quebec Canada

Role of Poly(ADP-ribose) metabolism in DNA repair and Cancer

Abstract. *The PARP field has undergone many important developments in the last ten years. Firstly, PARP inhibitors have been the first in class drugs applying the principle of synthetic lethality in DNA repair homologous recombination deficient cancers. The main tumors being targeted are ovary, breast and prostate cancers. There are more than 600 clinical trials at the moment testing the potency of PARP inhibitors in various types of cancers.*

PARP-1 and PARP-2 have also been shown to be involved in cell death of neurons and in the brain : PARTHANATOS.

Finally this talk will address the latest developments in proteomics to analyze covalent and non-covalent poly(ADP-ribose) modifications. Also the latest results in the function of PARP-1 in homologous recombination will be described.

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Informazioni: Prof. Francesco Malatesta francesco.malatesta@uniroma1.it
Dipartimento di Scienze Biochimiche
06 44542952 / 06 49910943
Prof. Davide Ragozzino
Dipartimento di Fisiologia e Farmacologia