

1st symposium on THERAPEUTIC POTENTIAL OF REDOX ACTIVE NANOPARTICLES AND NATURAL COMPOUNDS

Chair: Lina Ghibelli

Aula Seminari Dipartimento di Biologia:

9:45 **Opening**

9:50 **Welcome by the Dean of Dipartimento di Biologia Prof. Antonella Canini and the Director of NAST Center Prof. Silvia Licoccia**

10:00 **Antonella Canini**

Dipartimento Biologia, Università di Roma Tor Vergata

Natural molecules of plant origin

10:15 **Marc Diederich**

Department of Pharmacy, College of Pharmacy, Seoul National University, Seoul, Korea

Natural compounds as inhibitors of the 10 hallmarks of cancer

10:45 **Ivana Scovassi**

IGM-CNR Pavia, Italy

Search for the effects of anticancer drugs: A look to apoptosis but also to autophagy

11.15 **Coffee break**

11.30 **Enrico Traversa**

Division of Physical Science and Engineering, KAUST, Saudi Arabia

Material properties and potential biomedical applications of redox active cerium oxide nanoparticles

12:00 **Marco Chianelli**

Ospedale Regina Apostolorum, Albano, Italy

Medical use of radiations and potential role of compounds capable to reduce side effects and/or increase radio-sensitivity.

12:15 **Anna Giovanetti and Lina Ghibelli**

UTBIORAD, ENEA - Casaccia Research Center; and Dipartimento Biologia, Università di Roma Tor Vergata, Rome, Italy

Cerium oxide nanoparticles as radio-protective and radio-sensitizing agents

12:45 **Nicola Tirelli**

Institute of Inflammation and Repair and School of Materials, University of Manchester, Manchester, UK

Oxidation responsiveness of organic polysulfide (nano) materials

13:15 **Lunch**

Aula Seminari Dipartimento di Chimica:

14:15 **Raffaele Saladino**

Dipartimento DEB Università Tuscia, Viterbo, Italy

Application of nanotechnology catalysis in the synthesis of redox active natural compounds

14:45 **Stefania Briganti**

Laboratorio di Fisiopatologia Cutanea e Biologia Molecolare-CIRM, Istituto Dermatologico San Gallican IRCC- IFO, Roma

Phytochemicals in photoprotection and chemoprevention of skin cancer

15:15 **Katia Aquilano**

Dipartimento Biologia, Università di Roma Tor Vergata

Potential anti-cancer properties of garlic diallildisulfide.

15:30 **Milena De Nicola**

Dipartimento Biologia, Università di Roma Tor Vergata

Dextran conjugation to improve anti-tumor efficacy of etoposide

15:45 **Conclusion: Perspectives and clinical relevance**

16:00 **end of meeting**

