



an Open Access Journal by MDPI

The Role of Free Radicals and Antioxidants in Drug Activation and Effectiveness in Different Biological Systems

Guest Editors:

Dr. Antonio Vassallo

Department of Science, University of Basilicata, Viale dell'Ateneo Lucano 10, 85100 Potenza, Italy

Dr. Ioannis Tsamesidis

Department of Biomedical Sciences, University of Sassari, 07100 Sassari, Italy

Dr. Antonella Pantaleo

Department of Biomedical Sciences, University of Sassari, 07100 Sassari, Italy

Deadline for manuscript submissions: **20 October 2024**

Message from the Guest Editors

Dear Colleagues,

Oxidative stress is the result of a disequilibrium in oxidants/antioxidants which results from the continuous increase in the production of reactive oxygen species (ROS) under stress conditions (inflammation, etc.). Remarkable interest has arisen in the idea that oxidative stress and specific free radicals are able to control drug activation and, in some cases, their effectiveness too. The aim of this Special Issue is to gather the latest studies which explore oxidative stress biomarkers (ROS, RNS, free radicals, antioxidants) in cell interactions (human/animal cells, bacteria parasites) with potential compounds (drugs/edible oils) alone or encapsulated in nanomaterials (nanodrugs) for different biological applications.

Dr. Antonio Vassallo Dr. Ioannis Tsamesidis Dr. Antonella Pantaleo *Guest Editors*



mdpi.com/si/170873







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Patrick J. Sinko

Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ 08854, USA

Message from the Editor-in-Chief

Pharmaceutics (ISSN 1999-4923) is an online open access journal on the science and technology of pharmaceutics and biopharmaceutics. The scientific community, the wider community and the general public have unlimited and free access to the content as soon as a paper is published; this open access to your research ensures your findings are shared with the widest possible audience. Please consider publishing your impressive work in this high quality journal. We would be pleased to welcome you as one of our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q1 (*Pharmaceutical Science*)

Contact Us

Pharmaceutics Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/pharmaceutics pharmaceutics@mdpi.com X@MDPIpharma