



NO-Donors with Antioxidant Activities

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Message from the Guest Editors

Nitric oxide (NO) is a gaseous endogenous messenger ubiquitous in mammalian tissues, controlling a broad array of physiological and pathological processes, such as cancer initiation, progression, and response to therapy. NO is a multitarget species able to attack proteins, lipids, and DNA. The biological effects of NO in cancer are strictly dependent on its concentration. Low levels of NO inhibit apoptosis, while high levels of NO promote apoptosis. NO properties have been exploited in anticancer therapy in particular, since there is evidence that it can overcome drug resistance. In view of the great potentiality of NO in cancer therapy, some important NO-donors were hybridized with currently used antitumor drugs in order to develop new more potent anticancer agents.

This Special Issue aims to collect papers or reviews dealing with all aspects of NO-donors, alone, conjugated or hybridized with anticancer drugs in order to obtain synergistic or additive effects. Studies examining with particular attention the antioxidant/pro-oxidant activities in vitro or in vivo of RNS produced by the compounds are especially welcome.





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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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