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When the Anticancer Strategies Modulating Oxidative Stress Meet Nanomedicine: New Perspectives

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Deadline for manuscript submissions:
closed (31 January 2020)

Message from the Guest Editors

The link between oxidative stress and tumours has become more and more evident in the last decades. Cancer cells exhibit elevated reactive oxygen species (ROS) levels, which can contribute, with different mechanisms, to the malignant transformation and progression of tumours.

Advances in the developing field of nanomedicine can further expand the possibilities of redox-anticancer treatments. Both antioxidant and pro-oxidant NPs (containing compounds that can reduce or enhance oxidative stress, respectively), have been investigated in cancer therapy.

This Special Issue welcomes original research and reviews of literature concerning tumour chemoprevention and cancer progression studies of redox nanosystems, such as N P s *per se* redox active or containing conventional chemotherapic medicines, new alternative compounds, molecularly targeted cancer drugs, or nucleic acids with both antioxidant or pro-oxidant properties, as well as redox stimulus-responsive nanocarriers.

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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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