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Redox-Regulating Enzymes and Cancer

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Deadline for manuscript submissions:
closed (31 August 2021)

Message from the Guest Editors

While there is a wide consensus about the instrumental role of free radicals in the initiation of cancer, no such agreement exists in the case of the precise role that antioxidants play in the biology of cancer cells. Redox control has emerged as one of the most primitive and evolutionary conserved mechanisms in the regulation of protein function. Therefore, antioxidant enzymes, rate-limiting enzymes involved in the synthesis of antioxidants or free radical-generating proteins have received attention regarding cancer. Antioxidants have been reported as preventive agents but have also been linked to poor prognosis in certain tumors. Similarly, antioxidant enzymes have also been shown to display dual roles in cancer. Thus, given the controversy about the real impact of redox control in tumor progression, the topic requires a modern view as well as a reconsideration that would provide biologists and clinicians with a better understanding of its importance in cancer. This Special Issue will aim to collect current scientific data as well as in-depth reviews focused on any aspects relating redox regulation and cancer.

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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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