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## Redox-Active Selenium Compounds in Cancer

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### Message from the Guest Editor

For decades, the highly interesting growth modulatory properties of redox-active selenium compounds have been reported in various model systems. Despite this, there are very few clinical trials on selenium in cancer, and selenium has not been introduced in modern oncology. The simplicity and beauty of selenium compounds as cytostatic/cytotoxic agents really deserves much wider attention. The focus of this Special Issue is the therapeutic potential of redox-active selenium compounds and their potential use in combating highly drug-resistant cancers for which currently no efficient therapy exists. In the literature, prevention and therapy are often mixed. It is important to separate these two fundamentally different effects, since the former is mostly explained by antioxidant and the latter by pro-oxidant mechanisms of selenium. The Special Issue welcomes original research papers or reviews that deal with the cytotoxic and antineoplastic effects of redox-active selenium compounds. The main focus is therapy and not prevention, but the Special Issue is also open to prevention studies as long as redox-active selenium compounds are applied.



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# Special Issue



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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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