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Antioxidants and MicroRNA Modulation

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Message from the Guest Editors

MicroRNAs are the *trait d'union* of molecular mechanisms in both physiological and pathophysiological conditions. An emerging field of research is focused on "redoximiRs", i.e., redox-sensitive microRNAs, which provide an important and probably crucial additional control mechanism for redox signaling, beyond the well-characterized redox-sensitive transcription factor nuclear factor erythroid 2-related factor 2 (Nrf2). The potential for microRNA-based therapies exists, especially for non-communicable disease characterized by diminished antioxidant defenses and dysregulated redox signaling, which can lead to accelerated aging, cardiovascular and metabolic diseases, neurodegeneration, and cancers.

Papers of interest to this Special Issue regard microRNAs modulation by: i) natural compounds; ii) cellular redox molecules; iii) drugs; iv) nutraceuticals; v) nutritional regimens.



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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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