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Anti-Oxidative Bioactivities of Medicinal Herbs for Treatment of Aging-Related Diseases

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Message from the Guest Editors

Our understanding of the biology of aging and life expectancy has increased tremendously over the past 20 years. In addition to genetically manipulating the lifespan and aging rate of many animal species, it has been proven that using small molecules or acting on the environment to target some of the properties of aging can delay or prevent the development of many diseases, or even cause tissue and organism rejuvenation. As human aging, or life expectancy, is prolonged, related diseases are also evolving, and many researchers are paying attention to the efforts of the science and technology community to prevent or treat them. Of the numerous mechanisms known to date, by far the most significant is oxidative stress. Although it is an important mechanism, the inability to conquer aging may also be due to the lack of accurate understanding and utilization of oxidative stress.

In this Special Issue, as part of a step toward conquering aging with oxidative stress, we will devise a new aging-related treatment using antioxidants and plan a collection of papers studying aging diseases from a new perspective.



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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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