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Mass Spectrometry in the Analysis of Antioxidants and Products of Redox Reactions

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Message from the Guest Editor

Since mass spectrometry-based techniques are powerful analytical tools for the identification of antioxidants, as well as products, or intermediates, of redox reactions, there is a growing interest in the application of mass spectrometry in this area of research. The most important technique seems to be high-performance liquid chromatography–mass spectrometry; however, the other ones like gas chromatography–mass spectrometry, matrix-assisted laser desorption mass spectrometry, and ion mobility-mass spectrometry have been successfully used as well. Beside the identification of antioxidants (e.g., polyphenols in various plant materials), the mass spectrometry-based techniques can be successfully applied to identify the redox cycling compounds that produce reactive oxygen species, to analyse the protein redox state, or to analyse the redox speciation of metals. This Special Issue will focus on the application of mass spectrometry in the identification of antioxidants as well as in the study of the redox processes, mainly those occurring in living organisms.

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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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