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Lipids and Lipid Peroxidation Products in the Pathogenesis of Age-Related Diseases

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Message from the Guest Editors

In the coming years, age-related diseases will increase. These diseases mainly include cardiovascular diseases, neurodegenerative diseases, ocular diseases (cataract, age-related macular degeneration), type-2 and -3 diabetes, inflammatory diseases of the joints and intestines, osteoporosis and some cancers. In these diseases, the role of lipids (saturated fatty acids, mono- and poly-unsaturated fatty acids, trans fatty acids, cholesterol, phytosterols, leukotrienes, prostaglandins, maresines, protectines, resolvines) or of certain products deriving from lipid peroxidation (oxysterols, oxy-phytosterols, malondialdehyde, 4-hydroxynonenal) is widely suspected. It is therefore important to better know the deleterious and/or beneficial biological activities of these lipids by specifying their activities on oxidative stress, organelles, inflammation, and on the life/death balance to identify therapeutic targets and develop new drugs capable of modulating their activities. These drugs, which can be or not natural compounds, can be functionalized, for example being associated with nanoparticles or microencapsulated.

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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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