

Special Issue

Antioxidants for Skin Health

Message from the Guest Editor

The skin protects our bodies from external challenges. There is a complex interaction between tissue parenchymal cells, tissue-resident immune cells, innervating neurons and migrated immune cells. This cellular interaction involves the communication among these cellular types through soluble mediators, including cytokines, lipids and reactive oxygen and nitrogen species (ROS and RNS). ROS and RNS have a signaling role in cellular communication and function. In addition, ROS and RNS can also cause skin damage. To counteract ROS and RNS, the skin has endogenous antioxidants. The balance between pro-inflammatory/pro-oxidant and anti-inflammatory/antioxidant molecules determines the fate of the skin tissue upon varied challenges. To shape this highly active tissue milieu, we can use varied classes of molecules through systemic and topical administration. This Special Issue covers all aspects pertaining to antioxidants in skin health, including molecules that have antioxidant structural components as well as those molecules that shape oxidative stress without directly having chemical antioxidant groups, and the development of controlled drug release systems.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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