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Antioxidants, Microbiome and Gut Health

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Message from the Guest Editors

Gut health is important for the consumption of nutrients, energy delivery to vital organs, and protection against infectious and inflammatory complications, as well as the overall state of health. The gut has major neuronal, vascular, lymphatic, and immune networks in the body. The digestive tract is in constant contact with microbial antigens, and allergenic invasions through food intake. Gut mucosa with tight junctions is carpeted with the microbiome, symbiotic microbiota, which protects the gastrointestinal tract against proliferation and colonization by unfriendly microbes and toxins. Imbalance in the microbiota results in dysbiosis, gut permeability to toxins, and states of disease. Dysbiosis results in dysregulated antioxidants and ROS, mainly due to excess release from neutrophils and other immune defense cells.

We invite papers related antioxidant strategies to support the microbiome, the discovery of novel antioxidants and measurements of antioxidants. Moreover the effects of antioxidants that may support the microbiome and gut health to prevent inflammatory complications, basic, pilot clinical and translational trials and reviews are of particular interest.



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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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