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Gut Microbiota and Oxidative Stress

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Message from the Guest Editor

Dear Colleagues,

The gut microbiota is crucial in the regulation of the antioxidative state in the host. Oxidative stress is involved in multiple physiological functions; in the context of metabolism, however, the mechanisms for host antioxidation and utilization of oxygen are paradoxical.

This Special Issue aims to focus on knowledge gaps associated with the interplay between gut microbiota and the balance of antioxidation and oxidative stress. Topics of interest include but are not limited to the following themes:

- The role of microbial metabolites in host oxidative stress;
- The role of microbiota and microbial metabolites in oxidative-stress-mediated pathological changes in immune system, cardiovascular system, kidney, brain, etc.;
- Specific bacterial strains and their effects on host oxidative stress responses.

Dr. Tao Yang
Guest Editor



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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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