

Special Issue

Microalgae FoodOmics and FeedOmics: Antioxidant Enrichment, ROS Modulation, and Health-Boosting Applications

Message from the Guest Editors

Significant progress has been made in recent years in exploring the potential of microalgae-derived metabolites for aquaculture or human food. Antioxidant metabolites from microalgae are of considerable interest for healthcare applications. This Special Issue seeks contributions on how microalgae biomass and compounds affect animal fitness or human wellness through in vitro or in vivo approaches, focusing on metabolic pathways related to cellular responses to microalgae-derived antioxidants. We welcome studies involving genomics, transcriptomics, proteomics, and metabolomics as well as microalgae antioxidant biosynthesis, and metabolism. This Special issue highlights advanced delivery systems that enhance the stability, bioavailability, and targeted release of microalgae-derived bioactives. It aims to present recent advancements on promoting microalgae biotechnology for health, focusing on their benefits, mechanisms, and future perspectives.

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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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