Special Issue

Physiology and Biotechnology of Microalgae

Message from the Guest Editors

Globally, there has been increasing interest regarding the discovery of new and safe antioxidants from natural sources, such as plant material, to prevent the oxidative deterioration of food and minimize oxidative damage to living cells. Microalgae are photosynthetic microorganisms capable of rapidly generating biomass from solar energy, CO2, and nutrients. These organisms can be industrially cultivated in both closed (photobioreactors) and open (ponds and raceways) systems. The generated biomass can provide important primary metabolites, such as sugars, oils, and lipids, which can be channeled into processes toward the production of high-value products, including human and animal food supplements, transport fuels, industrial chemicals, cosmetics, and pharma- and nutraceuticals. Microalgae biomass and algae-derived compounds have a very wide range of potential applications, from animal feed and aquaculture to human nutrition and health products. Some microalgae are also considered to be a rich source of natural antioxidants.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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