Special Issue

Microalgae: Physiology, Biotechnology, and Industrial Applications

Message from the Guest Editors

The rise of the human population together with city swelling have increased the demand for natural resources to a point where alternative resources need to be developed to sustain future development. While autotrophic organisms constitute an alternative choice for the development of these new resources, trials with land plants have mostly resulted in a counterproductive competition for agricultural land use while rocking the inflation of food prices. To get around this, microalgae have been considered because (1) they can be grown in farmland-less systems, (2) they have a higher productivity than crop plants, (3) they produce a variety of unique compounds interesting for many industries, and (4) they can be used as cell factories in production platforms. To reach this goal, a deeper knowledge of microalga functioning from molecular biology to physiology is crucial. This Special Issue welcomes manuscripts dealing with both basic and applied science related to the production of bioactive compounds from microalgae, including cyanobacteria.

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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.

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