

## Special Issue

# Photosynthetic Microorganisms: Cultivation and Application

### Message from the Guest Editor

Photosynthetic microorganisms such as microalgae, cyanobacteria, and purple non-sulfur bacteria have attracted a great amount of interest as promising platforms for the sustainable production of high-value products and bioenergy. They are fast-growing organisms, capable of achieving high biomass productivities, and mainly use sunlight as their energy source. The new possibility of marketing such photosynthetic microorganisms requires the use of efficient culture systems. Photobioreactors are closed systems working either outdoors or indoors and offer good process control. They must be designed to have symmetrical light distribution and efficient mixing to ensure homogeneous illumination of the culture. Unsuitable culture conditions *can lead to* asymmetries in cell growth and division. This Special Issue will focus on the application of photosynthetic microorganisms in environmental biotechnology. You are invited to send contributions concerning the use of photosynthetic microorganisms for the production of biomaterials, biofuels, and biosensors. Studies in the field of photosynthetic microorganism culturing systems are also welcome.

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### Guest Editor

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### Deadline for manuscript submissions

closed (15 December 2022)



## Symmetry

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### Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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### Editor-in-Chief

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