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Microalgae-Bacteria Interaction: Molecular Significance and Biotechnological Applications

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Message from the Guest Editor

are critical to Interactions among microorganisms viability. In maintaining ecosystem their microalgae have evolved along with a vast variety of organisms interacting with them predators, as parasites, pathogens. competitors. mutualists, commensals. Frequently, these interactions allow algal cells to thrive in a dynamic environment and fit better in a broader set of natural conditions

When microalgae and bacteria are cultivated together, they can establish mutualistic relationships that benefit the growth of both organisms. For instance, bacterial cells can solubilize and mineralize sulfur, nitrogen, and phosphorus, which become available to algal cells. In addition, bacterial heterotrophic metabolism releases CO₂, which algae can use as a carbon source.

The purpose of this Special Issue is to bring together highquality research articles and reviews addressing recent developments in current relevant topics where algaebacteria consortia are playing a leading role as nitrogen fixation, biomass production, bioremediation, phytohormone production, quorum sensing regulation, biofertilizers, biostimulants, or biofuels and hydrogen production, among others.











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Message from the Editor-in-Chief

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