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Shedding Light on Light Use in Photosynthesis of Cultured Photosynthetic Microorganisms

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Message from the Guest Editors

The major challenge for the next decades is increasing the pace of the move towards a more widespread employment of cleaner technologies that lead to reductions in carbon footprint and industrial wastes. In this more environmentally sound context, an impressive research effort has been devoted to phototrophic microorganisms. Several strains of cyanobacteria and microalgae have been cultured under different experimental settings in photobioreactors. In this scenario, we would like to collect recent studies investigating the photosynthetic processes of cyanobacteria and microalgae, cultured in laboratory-, pilot-, and large-scale indoor and outdoor systems, focusing on the photochemical and non-photochemical reactions occurring in response to imposed abiotic constraints, and providing an assessment of the absorbed light energy use efficiency. We also welcome contributions exploring and/or modeling the connections among the photosynthetic responses occurring at determined culture settings, and the metabolic pathways that are potentially exploitable in biotechnological applications.



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Special Issue