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Photosynthesis and Carbon Metabolism in Higher Plants and Algae

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Message from the Guest Editors

This Special Issue aims to collate research papers on all aspects of photosynthesis in higher plants and algae, carbon metabolism, inorganic carbon transport into plants cells and organoids, the physiological sensing of carbon dioxide and bicarbonate, the participation of higher plants and algae enzymes in these processes. We also welcome papers concerning the locations, functions, participation in metabolic processes, isolation, structure of dark metabolism enzymes, bicarbonate transporters from algae and higher plants with C3 and C4 types of CO₂ fixation, new aspects of HCO₃[−] interaction with the components of Photosystem II, the effect of inorganic carbon on the functioning of electron-transport chain, the expression of bicarbonate-transporter-encoding genes, and the practical use of bicarbonate transporter mutants (i.e., their medical relevance, gene manipulation for developing improved agricultural crops, and their application for reducing atmospheric carbon dioxide levels).



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Special Issue



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Message from the Editor-in-Chief

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