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Molecular Biology of Chloroplast: Structure, Function and Development

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Message from the Guest Editors

Chloroplasts are essential organelles specific to plants. The structure, function, development, and propagation of chloroplasts are important for the growth development of plants and their interactions with the environment. Chloroplasts are the main photosynthesis. They also participate in the synthesis of amino acids, fatty acids, pigments, and hormones. Chloroplast division maintains the stability of chloroplast numbers in cells, ensuring the normal running of various physiological processes in chloroplasts. Chloroplasts are reported to have avoidance movement in response to high light. In recent years, chloroplast movement has also been reported to be involved in plant immunity. Exploring the diverse roles of chloroplasts in plants will help to improve the yield of crops and enhance the stress tolerance of plants. However, there are still many unknowns worth discovering—for example, how chloroplasts respond to environmental signals and why different types of cells have different numbers of chloroplasts. This Special Issue o f *Plants* will highlight the structure, function. development, and propagation of chloroplasts in plants.













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Message from the Editor-in-Chief

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