

Special Issue

Lipid Metabolism in Plant Growth and Development

Message from the Guest Editors

Lipids, an essential cell components, are involved in nearly every aspect of plant growth and development. Beyond the well-known role of lipids in maintaining the structural integrity and fluidity of membranes, plant lipids serve as the major energy reservoir in seeds and participate in various physiological processes, including signal transduction, stress responses, reproduction, and secondary metabolism, which are crucial for plant growth and development. This Special Issue will feature original research papers and invited reviews that highlight the most recent discoveries in plant lipid biology and provide insights into how lipids participate in various biological processes of plant life, such as seed germination, photosynthesis, stress responses, and reproduction. Topics of interest include lipid synthesis, transport, degradation, storage, signaling, and engineering. This Special Issue aims to collate the latest discoveries in plant lipid research, providing fundamental knowledge to advance our understanding of the multifaceted impact of lipids on plant growth and development, crop yield, as well as the nutritional and industrial value of economic crops.

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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