

Special Issue

Plant Lipids: From Physiology to Biotechnological Applications

Message from the Guest Editors

Plant lipids metabolism and membrane homeostasis have appeared as highly dynamic phenomena over the years, still revealing nowadays complex regulation and intricate metabolic coordination between subcellular compartments. It has also become clear that maintaining lipid homeostasis is of utmost importance for plant cells to survive under stressful conditions. In addition, lipids can serve for generating many signalling molecules, the latter of which are involved in plant local and systemic tolerance to numerous abiotic and biotic stresses. The purpose of this Special Issue is thus to provide an update on all these aspects at the molecular level, and explore new outcomes of plant lipid physiology towards possible biotechnological applications.

We will consider for review or research publication any contribution dealing with (i) lipid metabolism and its regulation, (ii) membrane structure and dynamics, (iii) lipid-based signalling events under developmental and stressful conditions, and (iv) biotechnological issues emphasizing molecular methodological approaches dedicated to either improving or understanding plant lipid quality and/or quantity.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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