

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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