Special Issue

Lipid Genes and Biotechnology in Plants

Message from the Guest Editors

Plant lipids are a component of cell membranes, with a role in providing protection from the external environment, and acting as an energy source. They also play a role in cell signaling. After the first report on the fatty acid desaturase genes in the model plant *Arabidopsis* by Dr. John Browse of Washington State University, many researchers discovered the function of genes involved in lipid synthesis and regulation using *Arabidopsis* mutants. After the genome sequencing of *Arabidopsis* was completed, Dr. John Ohlrogge of Michigan State University created the "Arabidopsis Acyl-Lipid Metabolism" database

(http://aralip.plantbiology.msu.edu/pathways/pathways) that organized lipid genes. However, many studies on the function of lipid genes have not yet been completed in *Arabidopsis*. Plant lipids not only supply essential fatty acids to humans, but are also used for industrial purposes. Biotechnology to produce health and industrial lipids from plants is needed. This Special Issue deals with the study of the function of lipid genes in model plants and crops and the study of biotechnology

Guest Editors

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related to lipid metabolism.

Deadline for manuscript submissions

closed (20 October 2022)



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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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