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Lipid Metabolism, Regulation and Biosynthesis of Microalgae

Guest Editors:

Dr. Yi Xin

School of Marine Biology and Fisheries, Hainan University, Haikou, China

Dr. Fantao Kong

MOE Key Laboratory of Bio-Intelligent Manufacturing, School of Bioengineering, Dalian University of Technology, Dalian 116024, China

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Message from the Guest Editors

Microalgae are attracting renewed interest from both the scientific and public communities owing to their potential applications as sustainable feed stocks for the production of biofuels and high-value compounds, and environmental remediation. For the commercial use of microalgal lipids to be feasible, many fundamental biological questions must be addressed based on detailed studies of algal biology, including how lipid biosynthesis occurs and is regulated.

In order to better understand and manipulate microalgal lipid metabolism for improvements in lipid production, we set up this Special Issue, which will focus on the current knowledge on biosynthetic pathways, signaling regulation, and metabolic engineering of microalgal lipids. Moreover, this Special Issue will concern advanced technologies which have been applied in the enhanced lipid production of microalgae. These endeavors will point to new possible avenues of genetic engineering of lipid metabolism in this organism group, and may also inform studies of lipid metabolism in plants.



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Special Issue



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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

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Life Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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