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Advanced Researches on Functional Lipids

Guest Editors:

Dr. Fang Wei

Oil Crops Research Institute,
Chinese Academy of Agricultural
Sciences, Wuhan 430062, China

Prof. Dr. Mingming Zheng

Hubei Key Laboratory of Lipid
Chemistry and Nutrition, Oil
Crops Research Institute, Chinese
Academy of Agricultural
Sciences, Wuhan 430062, China

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Message from the Guest Editors

Lipids are one of the three macronutrients needed by the body and are naturally found in many biological resources consumed as agro-foods. Lipids and their derivatives exert indispensable functionalities in maintaining a desirable color, flavor, texture, and nutritional quality of food. The roles of lipids in organisms include energy storage, the formation of cellular membranes, signal transduction, endocrine regulation, and inflammation. Therefore, the composition, structure, and state of lipids not only determine the quality and safety of food but also are closely related to their biological functions and nutritional quality. However, there are some problems existing in natural lipids such as their single structural composition, simple physicochemical properties, and low nutritional value. The molecular modification of lipids is an ideal approach to improve the physicochemical properties, expand the application scope, and enhance their functional activity including regulating blood lipids, preventing atherosclerosis, and improving memory and anti-inflammation. This Special Issue will focus on the advances and trends in advanced research on functional lipids.



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Special Issue



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Editor-in-Chief

Prof. Dr. Arun K. Bhunia

1. Department of Food Science,
Purdue University, West
Lafayette, IN 47907, USA

2. Department of Comparative
Pathobiology, Purdue University,
West Lafayette, IN 47907, USA

Message from the Editor-in-Chief

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Contact Us

Foods Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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