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Healthy Lipids for Food Processing

Guest Editors:

Dr. Baocheng Xu

College of Food &
Bioengineering, Henan University
of Science and Technology,
Luoyang 451252, China

Prof. Dr. Xin Xu

College of Food Science and
Engineering, Yangzhou
University, 196 Huayang West
Road, Yangzhou 225127, China

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Message from the Guest Editors

The aims and scope of this Issue include but are not limited to the following: 1. new synthesis strategies for structured lipids (a new type of functional lipid obtained by chemically, enzymatically, or genetically modifying the composition and/or distribution of fatty acids in the glycerol backbone); 2. new structured lipids with favorable physicochemical features (e.g., solid fat content, crystallization and melting behavior, rheology and interfacial properties, oxidative stability) for specific uses; 3. how structured lipids' chemical structure (i.e., fatty acid chain, unsaturation level, and positional distribution) and molecular architecture (e.g., polymorphic form; crystal shape, size, and the resultant crystalline network) affect their physicochemical characteristics; 4. health benefits of structured lipids (e.g., calorie reduction, immune function improvement, reduction in serum triacylglycerols); 5. potential applications of structured lipids in food products; 6. new oil processing and purification technologies for the production of high-quality and nutritious vegetable oil; 7. new oilseeds and edible oil resources; 8. new antioxidant strategies for vegetable oils.



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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, USA

2. Department of Comparative
Pathobiology (Courtesy), Purdue
University, West Lafayette, IN,
USA

Message from the Editor-in-Chief

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Foods Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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