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Recent Advances in Biopolymer Applications in the Food Industry

Guest Editor:

Dr. Vitor D. Alves

LEAF—Linking Landscape,
Environment, Agriculture and
Food, Instituto Superior de
Agronomia, Universidade de
Lisboa, Tapada da Ajuda, 1349-
017 Lisboa, Portugal

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Message from the Guest Editor

Naturally occurring biopolymers have attracted significant attention in the food industry due to their versatile properties, such as their nontoxicity, biocompatibility, and biodegradability, along with their abundance and sustainability. These biopolymers include polysaccharides and proteins recovered from biomass and polymers produced by microorganisms. Their diverse chemical, physical, and biological properties allow these materials to have multipurpose applications, such as food structure design, encapsulation of bioactive compounds at the micro- and nanoscale, as functional ingredients and health-promoting agents, and as materials for edible coating production. In addition to that, bio-based polymers have been intensively explored in the design of biodegradable films intended for packaging of specific food products. With the present Special Issue, we intend to gather recent advances regarding the use of emergent biopolymers, as well as different strategies for biopolymers' applications in food products, including biodegradable packaging materials.



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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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Contact Us

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

Tel: +41 61 683 77 34
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