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New Functional Food Ingredients to Improve Health

Guest Editors:

Dr. Isabel Rodríguez Amado

Food Processing Research Group, International Iberian Nanotechnology Laboratory, Av. Mestre José Veiga s/n, 4715-330 Braga, Portugal

Prof. Dr. Lorenzo M. Pastrana

Food Processing Research Group, International Iberian Nanotechnology Laboratory, Av. Mestre José Veiga s/n, 4715-330 Braga, Portugal

Dr. Pablo Fuciños

Food Processing Research Group, International Iberian Nanotechnology Laboratory, Av. Mestre José Veiga s/n, 4715-330 Braga, Portugal

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Message from the Guest Editors

Functional foods improving physical, mental, or emotional wellbeing are foreseen by consumers and scientists, since the interplay between the diet and the microbiota–gutbrain axis is known to have a pivotal role in the metabolic, immune, and nervous systems.

The recovery of natural compounds bearing promising bioactivities is still the focus of many research efforts, including their purification from food wastes and byproducts, and the prospect of new bioactivities from natural sources such as plants, animals, microorganisms and algae. The implementation of these bioactives into functional foods/nutraceuticals is still limited by two major challenges: (i) stabilization of the bioactives and (ii) controlled release at the target site.

The development of new functional food ingredients demands a comprehensive study of their production and characterization, their stabilization using food-grade polymers, and the testing of their functionality and bioaccesibility/bioavailability using in vitro tools or organon-a-chip technologies.

Dr. Isabel R. Amado Prof. Dr. Lorenzo M. Pastrana Dr. Pablo Fuciños *Guest Editors*



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Editor-in-Chief

Prof. Dr. Giulio Nicola CerulloDipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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