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# High-Pressure Treatments for Enhancing the Techno-Functional Properties of Food Ingredients

Guest Editors:

#### Prof. Dr. Francesco Donsì

Department of Industrial Engineering, University of Salerno, Via Giovanni Paolo II, 132 84084 Fisciano, Italy

#### Prof. Dr. Giovanna Ferrari

ProdAl scarl and Department of Industrial Engineering, University of Salerno, Via Giovanni Paolo II, 132 84084 Fisciano (SA), Italy

## Prof. Dr. Marcelo Cristianini

School of Food Engineering, State University of Campinas, Rua Monteiro Lobato, 80 - CEP 13083-862, Campinas - SP, Brazil

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## **Message from the Guest Editors**

Proteins, polysaccharides, and fibers from natural sources are gaining increasing interest as sustainable food ingredients. Nonthermal technologies, particularly those based on high pressure (e.g., high-pressure processing and high-pressure homogenization), have recently emerged as capable of modifying the accessibility and technofunctionality of scarcely exploited macromolecules from underutilized crops, agri-food by-products and residues, or novel sources such as insects.

By inducing targeted structural changes at the cellular level, for example by increasing the bioaccessibility of value-added components by size reduction or simply opening the cell structure, and at the molecular level (e.g., defibrillation and size reduction of structural polysaccharides, or the aggregation, unfolding, or partial denaturation of proteins), high-pressure processing and high-pressure homogenization may become versatile tools to improve and modulate the functional and technological properties of natural ingredients.













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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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