

## Special Issue

# Structure and Function of Food Proteins, Peptides, and Amino Acids

### Message from the Guest Editors

Animal-derived proteins have long dominated human diets due to their complete essential amino acid profiles, high digestibility, and superior biological value. Processing techniques can further enhance their functional properties, including emulsifying capacity, gel strength, and bioactivity, thereby expanding their potential for innovative food applications. Aquatic proteins, in particular, offer high-value potential. Their by-products can be transformed into bioactive peptides, glycosylated products, and other high-value ingredients, improving flavor, texture, and storage stability. Nevertheless, challenges remain in sustainability, allergenicity, and health-related perceptions. Combining animal and plant proteins into hybrid systems represents a promising direction, offering nutritional completeness and synergistic functional benefits. This Special Issue highlights sustainable processing and value-added applications of animal proteins, particularly aquatic proteins. We invite research on modification strategies to improve functionality and nutrition. Studies on animal-plant protein blends and insights into digestion, health impacts, and processing challenges are also welcome.

### Guest Editors

Dr. Yueming Hu

College of Food Sciences and Technology, Nanchang University,  
Nanchang 330031, China

Dr. Hui Wang

College of Food Sciences and Technology, Nanchang University,  
Nanchang 330031, China

### Deadline for manuscript submissions

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## Foods

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[foods@mdpi.com](mailto:foods@mdpi.com)

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*Foods* (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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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

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