



Food Proteins and Peptides: Chemistry, Functionality, Interactions, and Commercialization

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A multidisciplinary resource, **Food Proteins and Peptides: Chemistry, Functionality, Interactions, and Commercialization** enables researchers in biochemistry, biotechnology, food science and technology, nutrition, and medicine to understand the physicochemical and biochemical factors that govern the functionality of these food components. Following chapters on the structure and chemistry of amino acids, peptides, and proteins, the book describes modes of characterization and the functional relationships of food proteins. It examines protein solubility and insolubility and explores proteins and peptides as emulsifying and foaming agents.

Specialized topics include:

- Factors affecting heat-induced casein–whey protein interactions in bovine milk systems
- The effects of protein–saccharide interactions on the properties of food components
- Ameliorative action of peptides on cholesterol and lipid metabolism
- Proteins and peptides with elements of sweetness, kokumi, umami, and bitterness
- A new approach for the large-scale fractionation of peptides based on their amphoteric nature

The book examines the source of bioactive peptides and describes their bioavailability, including their absorption and occurrence in human blood. It also provides a database of biologically active proteins and peptides. Final chapters review current status, future industrial perspectives, and future trends of bioactive food proteins and peptides and explore the role of nanotechnology in protein research.

With contributions from a panel of international scientists, this volume captures the state of the art in protein and peptide research, providing a launching pad for further inquiry and discovery.

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