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Recombinant Proteins for Food Applications

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submissions:

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Message from the Guest Editors

Advances in biotechnology and genetic engineering are increasingly being applied in the context of food production to produce animal proteins, often referred to as "recombinant proteins" or "alternative proteins". Recombinant protein technology involves the creation and insertion of specific DNA sequences into non-animal cells (e.g., plants, yeast, fungi, or bacteria). Major challenges include the optimisation of the production processes, the improvement of product quality, safety, and increasing product diversity. This Special Issue invites reviews, opinion articles, and original research articles in the following areas: Precision fermentation technologies (e.g., recombinant protein expression in microbial and yeast systems, plant cells, and mammalian cells);

The isolation/purification and characterisation of expressed proteins;

The functionality of fermentation-produced milk proteins, egg proteins, enzymes, etc.;

The formulation and manufacture of food products containing recombinant proteins;

Cell culture technologies for animal food production (e.g., cultured meats);

Sensory, consumer, and regulatory aspects of recombinant food proteins.



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Special Issue



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Message from the Editor-in-Chief

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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