

Special Issue

Processing and Quality Control of Cereal Foods

Message from the Guest Editors

Cereal-based foods are a major part of the global diet, providing carbohydrates, proteins, and bioactive compounds. With rising demand for high-quality, safe, and functional products, optimizing processing and ensuring robust quality control are key challenges. This Special Issue highlights research on conventional thermal and emerging non-thermal technologies, focusing on their effects on cereal macromolecules. Emphasis is placed on starch retrogradation, protein denaturation and aggregation, texture formation, and processing-induced changes in physicochemical and rheological properties. Additionally, we welcome contributions exploring process optimization, mechanistic insights into structure–function relationships, and the development of analytical tools for quality assessment. Submissions addressing both fundamental investigations and industry-relevant innovations are encouraged. By integrating multidisciplinary approaches—from molecular-level studies to processing-system design—this Special Issue seeks to expand the scientific basis and practical implementation of cereal food processing and quality assurance.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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