

Special Issue

Gluten-Free Foods

Message from the Guest Editors

The development of gluten-free food products is a technological challenge, as gluten is the main structuring agent of conventional cereal foods, responsible for the extensibility and viscoelasticity of doughs. The traditional strategy is focused on the use of thermal pre-gelatinized flour, or the use of unconventional flours together with hydrocolloids, proteins and enzymes. Besides, some of these biopolymers can also contribute to the reinforcement of the gluten-free structure mimicking the gluten matrix. The enrichment of a food product with a chosen bioactive compound does not guarantee its effectiveness on the metabolic functions of the organism. The processing technologies applied influence their availability for intestinal absorption. This is a clear opportunity for the food industry to develop this type of foods which are safe (assurance of gluten-free), sensory appealing, nutritionally balanced and have a positive effect on the health of the individual.

- Gluten-free foods
- Trends in the food industry
- Processing technologies
- Food Rheology and Texture
- Bioactive compounds
- Bioavailability
- Functional food
- Sensory evaluation
- New food ingredients

Guest Editors

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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.

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