

## Special Issue

# Recent Advances and Innovations in Dairy Science and Processing Technologies

### Message from the Guest Editors

The dairy industry is undergoing significant transformation driven by technological advancements, consumer demand for healthier and more sustainable products, and novel scientific discoveries. This Special Issue aims to explore the latest research and innovations in dairy science and processing technologies, focusing on improving product quality, safety, and functionality. Key areas of interest include emerging non-thermal technologies, such as high-pressure processing and pulsed electric fields, which enhance microbial safety and extend shelf life while preserving sensory and nutritional attributes. The collection will also highlight the role of biotechnology and microbiology in dairy science, including the application of probiotics, prebiotics, symbiotics, and bacteriophages in improving gut health and preventing spoilage. Additionally, the reformulation of dairy products to meet evolving consumer preferences, including plant-based and fermented dairy alternatives, will be discussed. Understanding the dairy microbiome and its impact on product characteristics and human health is another critical focus.

### Guest Editors

Prof. Dr. Małgorzata Ziarno  
Dr. Iwona Ścibisz  
Dr. Mariola Kozłowska

### Deadline for manuscript submissions

20 September 2026



## Applied Sciences

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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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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