

Special Issue

Control of Environmental Conditions and Technological Advances in Probiotic Fermentation

Message from the Guest Editors

This Special Issue focus on understanding how various environmental factors impact probiotic functionality, additionally exploring the development and optimisation of fermentation processes through modern technologies. Topics of interest include, but are not limited to, the following: The impact of pH, temperature, oxygen levels, and other environmental parameters on probiotic fermentation; The development and optimisation of fermentation conditions to enhance probiotic functionality; Adaptive mechanisms, encapsulation techniques, and the stability of probiotic strains; The application of bioreactors and real-time monitoring fermentation systems (e.g., smart sensors, biosensors); Mathematical modelling and predictive tools applied to fermentation processes; Novel applications of probiotic fermentation in food, feed, and pharmaceutical industries; The integration of omics approaches (genomics, transcriptomics, and metabolomics) for strain improvement and process monitoring; Biological responses and stress adaptation mechanisms in probiotics under variable environmental conditions.

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Deadline for manuscript submissions

27 January 2026



Processes

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