

Special Issue

Recent Advances in Fermentation in Food Chemistry

Message from the Guest Editor

In this Special Issue, we will highlight recent scientific progress and emerging trends in fermentation research from a food chemistry perspective. Fermentation remains a cornerstone of food processing, linking traditional practices with modern analytical, biochemical, and technological approaches. Recent advances in chemical analysis, microbial characterization, and process optimization have significantly improved our understanding of fermentation mechanisms and their influence on food quality, safety, nutritional value, and functional properties. We welcome original research articles and reviews covering chemical and biochemical transformations during fermentation, the role of microorganisms and their metabolites, advanced analytical techniques for monitoring and controlling fermentation processes, and innovative fermentation technologies in food production. Contributions addressing the impact of fermentation on sensory attributes, nutritional composition, product stability, and safety are particularly encouraged. This Special Issue will foster knowledge exchange and identify future directions for fermentation research as a key area within contemporary food chemistry.

Guest Editor

Dr. Marek Zdaniewicz

Department of Fermentation Technology and Microbiology, Faculty of Food Technology, University of Agriculture in Krakow, Balicka Street 122, 30-149 Krakow, Poland

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Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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