

## Special Issue

# Current Trends in Bioprocesses for Waste Valorization

### Message from the Guest Editors

This Special Issue will focus on the current trends in diverse bioprocesses for waste treatment and processing through anaerobic digestion, fermentation, nutrient recycling, and photosynthesis. Special attention is given to the treatment and conversion of flue gas, urban waste, and wastewater into valuable products and/or biofuels under the biorefinery concept. We will provide an overview of the latest advances in bioprocesses for waste treatment and valorization. We invite authors to submit their contributions on the following subtopics:

- Anaerobic digestion;
- Biomaterials synthesis;
- CO<sub>2</sub> capture via biological processes;
- Lignocellulosic biomass treatment;
- Photosynthetic microorganisms;
- Membrane-based bioprocesses;
- Reactor design;
- Sludge treatment;
- Urban waste and gas fermentation;
- Wastewater treatment.

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### Guest Editors

Dr. Octavio García-Depraect

Dr. Laura Vargas-Estrada

Dr. Roberto Castro-Muñoz

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### Deadline for manuscript submissions

25 August 2025



## Fermentation

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## About the Journal

### Message from the Editor-in-Chief

Welcome to a new open access journal, Fermentation, which meets the growing need for a high quality peerreviewed international journal with easy access to all researchers globally. We hope that you will share our enthusiasm for this new journal and look forward to working with you to make Fermentation a leader in its field. Your contributions are vital for the success of this new journal. Proposals for editing a special issue for a particular topical area are always welcome.

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### Editor-in-Chief

Dr. Badal C. Saha  
Retired, National Center for Agricultural Utilization Research, USDA-  
ARS, Peoria, IL, USA

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#### Journal Rank:

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