

Special Issue

Strategies for Optimal Fermentation by Using Modern Tools and Methods

Message from the Guest Editor

The optimization of fermentation processes to produce biomass, fuels, and chemicals has always faced challenges. The current state of the art highlights the complexity of achieving success in all areas of fermentation, emphasizing that success cannot be achieved without first applying methods that isolate and identify microorganisms from habitats or communities, or methods for improving the function of existing microorganisms. Notably, special attention will be given to the following: 1. manuscripts on the identification of microorganisms by target amplification methods and nucleic acid sequence analysis; 2. nanoparticles as a tool to enhance mass transfer processes and metabolic control during fermentation; 3. innovative culturing techniques to facilitate fermentation processes; 4. the development of subsystems techniques involving microbial kinetics, liquid flow distribution in the bioreactors, and heat and mass transfers. **Keywords:** fermentation process; metabolic control; process modeling; design; optimization

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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.

Editor-in-Chief

Dr. Badal C. Saha
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