



## Modeling and Analysis of Bioprocesses

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### Message from the Guest Editors

This Special Issue on “Modeling and Analysis of Bioprocesses” seeks high-quality research articles and reviews on novel insights, rigorous methodologies, and the practical implications of modeling and analysis tools.

- the development of mathematical models for upstream and downstream bioprocesses
- multi-scale modeling approaches in bioprocesses
- process intensification and optimization
- the application of artificial intelligence and machine learning in bioprocess modeling
- model-based optimization and control strategies
- process validation and quality assurance via modeling
- process analytical technology (PAT) and multivariate data analysis
- economic and environmental analysis of bioprocesses
- the application of novel technologies mentioned above, including case studies





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## Message from the Editor-in-Chief

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