

Special Issue

Computational Modeling and Data Analysis in Biological and Health-Related Processes

Message from the Guest Editors

This Special Issue, “Computational Modeling and Data Analysis in Biological and Health-Related Processes,” welcomes contributions that combine mechanistic or data-driven models with experimental or observational data to improve understanding, prediction, and control of biological systems. We are particularly interested in studies that connect data analysis with biological processes, from sub-cellular mechanisms and microbial interactions to bioreactor dynamics and health-related applications. Topics may include (but are not limited to) the following:

- Modeling metabolic, signaling, or genetic systems;
- Model estimation and sensitivity analysis;
- Machine learning for modeling biological systems;
- Multi-modal data integration and biomarker discovery;
- Data analysis in biological or health-related studies;
- AI and decision-support in bio/health systems;
- Optimization of bioprocesses or health-related workflows.

Guest Editors

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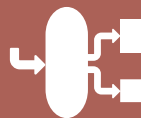
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closed (28 August 2026)



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