

Special Issue

Complex Biological Systems and Mathematical Biology

Message from the Guest Editors

Mathematical models play an increasingly important role in the prediction and early warning of emerging infectious disease outbreaks or developments in non-communicable diseases, optimizing non-pharmaceutical interventions, therapeutic strategies, and so on. We believe that modelers can make substantial contributions to innovating modelling and analysis methods, providing a better understanding of the dynamic mechanisms of complex biological systems, and helping to solve the current major issues in biomedicine. For this reason, we have initiated a Special Issue focusing on new developments in the fast-growing field of mathematical models of complex biological systems. Potential topics include—but are not limited to—the following:

- Mathematical modelling and analysis to understand complex biological systems;
- Dynamic mechanism of complex biological systems;
- Optimization and control for complex biological systems;
- Data-driven modeling of complex biological systems;
- Machine learning approaches to biological systems;
- Advanced computational methods and data science for biology and biomedicine, etc.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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