Special Issue

Multiscale Modeling of Infectious Disease Dynamics

Message from the Guest Editors

The objective of this Special Issue is to change the current predominantly single scale modeling landscape in the design of planning frameworks for the control, elimination and even eradication of infectious disease systems through the exploitation of multiscale modeling methods. Papers are invited that pioneer and establish a powerful conceptual foundation for multiscale modeling of infectious disease dynamics. The main focus of the work should be on elucidating intellectual foundations for the multiscale modeling of disease dynamics. Specific topics include, but are not limited to:

- Multiscale modeling of infectious disease systems processes and mechanisms.
- Novel methods for integrating or linking multiple models and scales.
- Numerical methods for solving multiscale models of infectious disease dynamics.
- Analysis, evaluation and validation of multiscale models of infectious disease dynamics.
- Application of multiscale models as planning frameworks for the control, elimination and even eradication of infectious disease systems.
- Methods discovery for building of multiscale models of infectious disease dynamics.

Guest Editors

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Deadline for manuscript submissions

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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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