

Special Issue

Mathematical and Computational Modeling in Biology and Medicine

Message from the Guest Editor

In recent decades, mathematical models have been actively used across technology and science, including natural and social fields. An important area is the modeling of complex systems, particularly living systems, where real experiments are often difficult, costly, or ethically problematic. Mathematical models can describe key properties of such phenomena and predict possible scenarios without real experiments. Mathematical and computational modeling can contribute to the improvement of understanding the role of key factors in various biological processes and phenomena—in particular, the occurrence and development of various diseases in medicine, the improvement of existing and creation of new drugs, the optimization of treatment protocols, and the improvement of hospital technology and effective healthcare system management. The purpose of this Special Issue is to publish high-quality papers presenting new or improved mathematical and computational models at various scales, applicable to biology and medicine, including qualitative and quantitative analyses and comparisons with experimental data.

Guest Editor

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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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