Special Issue

Mathematical Modeling in Cell Biology and Its Applications

Message from the Guest Editor

The application of mathematical methods is a large area that has stimulated research and development over the centuries. It was especially fruitful in the areas of biology and medicine. Various mathematical approaches from molecular dynamics to population ecological patterns have been successfully applied to the description of living systems. Nonetheless, many aspects of biological mechanisms continue to be studied extensively. It is essential that mathematical modeling sometimes reveals the fundamental law of nature before an empirical experiment is conducted. This is why models should be at the center of greater attention. The special point of interest is to consider a multi-physical model that unites various cellular processes to discover the regulation and properties of cells. In this Special Issue, we encourage submissions providing new results in the setting of mathematical modeling in cell biology and their applications. All areas of cellular processes are welcome to be described in terms of mathematical models. The list of most topics includes but is not limited to the next keywords⬚

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Guest Editor

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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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