Mathematical Modelling in Biology

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

For understanding complex bio-systems, it is required to determine and characterize the biomolecules individually along with identifying the interaction between those biomolecules and respective pathways/Gene-Ontologies. Recent trends include so-called "complex diseases" such as COVID-19, cancer, Parkinson's disease, Alzheimer's disease, etc. those need to be detected in earlier stage.

With the recent advancement on various emerging techniques, the main aim of the current biomedical research has shifted toward interpreting the big data generated by single/multi-omics technologies. Various mathematical, statistical and other machine learning-based computational models allow the researchers to investigate how the complex regulatory processes are linked and how their disruptions might lead to the development of those diseases.

The purpose of this Topical Collection is to choose and publish review articles, original research articles as well as other perspective article representing novel theory, algorithms and applications of computation modeling applied to various fields of biology especially biomedical areas.

Special Issue

Editor-in-Chief

Prof. Dr. Francisco Chiclana
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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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