

Special Issue

Mathematical Modelling in Biology

Message from the Guest Editors

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.

Guest Editors

Dr. Saurav Mallik

Dr. Yashika Rustagi

Dr. Guimin Qin

Dr. Aimin Li

Deadline for manuscript submissions

closed (30 June 2024)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/100965

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)



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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).