Special Issue

Mathematical Models and Applications in Cancer

Message from the Guest Editors

Mathematical models are used routinely in many areas of Science and Engineering as the standard way of providing conceptual frameworks to understand nature and provide solutions to real-world problems. It has been only recently that this methodology, beyond the classical statistical studies, has started to be used in medicine and specifically in cancer research. Many concepts of potential relevance in cancer have been proposed coming from mathematical approaches ranging from evolutionary dynamics concepts to adaptive and metronomic therapies. The purpose of this Special Issue is to present recent advances in mathematical oncology and applications of mathematical models. Editors invite authors to submit original research articles and high-quality review articles on the development, analysis, and simulation of mathematical models based on ordinary differential equations, dynamical systems, partial differential equations, discrete and stochastic approaches, and others.

Guest Editors

Prof. Dr. Maria Rosa

Dr. Salvador Chulián

Dr. Álvaro Martínez-Rubio

Deadline for manuscript submissions

closed (31 January 2023)

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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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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).