Special Issue

Mathematical Models for Cell Migration and Spread

Message from the Guest Editor

Real world problems from Biology and Medicine arise challenging mathematical issues and often require a broad knowledge of methods from several mathematical disciplines, along with the ability to connect them. One of the main directions in Mathematical Biology addresses continuous time problems described by way of ordinary/stochastic/random/partial differential equations, often coupled in systems comprising one or several such types. Cell motility is a hallmark of many biological processes related, among others, to development of cancer and building of metastases, wound healing, tissue regeneration, embryonic development, etc. This special issue focuses on problems related to cell migration and spread in a heterogeneous environment containing soluble and insoluble signals (chemoattractants and -repellents, tissue components, various types of cells, interstitial fluid, etc.) and modelled by systems like those mentioned above. Thus, it welcomes manuscripts addressing questions related to modeling, analysis and/or numerical simulations of such systems.

Deadline for manuscript submissions

closed (30 November 2021)

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).