

# Special Issue

## Applications of Differential Equations and Mathematical Modelling in Mathematical Biology

### Message from the Guest Editors

The use of mathematics for modelling is essential in many scientific areas. The complexity of real-world systems and the growing availability of biological data make the close interaction between scientists of different disciplines crucial for realism and significance of the obtained theoretical results. Mathematical biology is a particularly vibrant field, utilising mathematical, statistical and computer-based methods to investigate a wide range of biological problems in areas such as epidemiology, virology, complex ecosystems, genetics, cancer dynamics, and many others. In this Special Issue, the theory of differential equations stands out as indispensable for modelling and understanding biological phenomena, regarding its conceptual richness and applicability. By disclosing the compelling aspects of combining mathematics with real-world problems, this Special Issue is likely to attract a wide audience by its importance and interdisciplinarity.

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### Deadline for manuscript submissions

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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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