Special Issue

Data Modeling and Analysis in Epidemiology and Biostatistics

Message from the Guest Editors

Integrating data analysis and modeling in epidemiology and biostatistics stands at the confluence of public health, mathematics, statistics, and computer science. The application of sophisticated data analysis and modeling techniques in epidemiology and biostatistics enables a profound insight into disease patterns, health trends, and the efficacy of interventions, significantly influencing public health policies and practices.   We encourage contributions that explore new models, data analysis techniques, and their applications in epidemiology and biostatistics, including, but not limited to, infectious disease modeling, health data analytics, biostatistical methods for public health interventions, and computational approaches in genetic epidemiology.

This Special Issue presents an opportunity to spotlight the critical bridges being built between data analysis, modeling, and the broader realm of epidemiology and biostatistics, encouraging cross-disciplinary collaboration and innovation.

Guest Editors

Dr. Jorge M. Mendes

Dr. Ying C. MacNab

Dr. Helena Baptista

Deadline for manuscript submissions

31 August 2025

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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