Special Issue

Computational Methods in Biology Research

Message from the Guest Editors

With the increasing use of computation in biology, the field of computational biology has grown rapidly in the past decade. There are a variety of computational methods that can be used to analyze data. The three most common methods of analyzing data are statistical methods, machine learning methods, and mathematical modeling. Data generated by these methods can be analyzed to draw conclusions about a biological system. Statistical methods are used to analyze data that is relatively easy to interpret and are often used to analyze data that is produced by measurements. Machine learning methods are used to analyze data that is produced by simulations. Mathematical modeling is used to analyze data that is produced by mathematical descriptions of the system being studied. We will examine the latest developments in computational methods that are being used to investigate biological systems.

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Deadline for manuscript submissions

closed (1 January 2024)

Biology

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed

mdpi.com/si/166045

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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