Special Issue

Omics Data Mining Methods for Precision Medicine

Message from the Guest Editor

Precision medicine aims to tailor treatments to individual characteristics, conditions, and preferences. The differences in the genetic, molecular, and clinical phenotypes of individuals can be reflected through massive amounts of multi-omics data with a high throughput. Traditional biological experiments cannot meet the needs of large-scale knowledge mining, and the huge volume of biological data makes it difficult for biologists to use. Therefore, there is an urgent need to develop computational methods to mine knowledge from multi-omics data to understand biological processes ranging from mutations to gene expression to protein differences to different disease subtypes in order to enable personalized medicine.

Deep learning has supported the research and development of cancer early screening kits, the improvement of treatment technology for major diseases, and prognosis management. We invite the submission of original research articles, systematic reviews, and domain-specific studies that present the latest breakthroughs, challenges, and future directions related to deep learning algorithms within both the basic and clinical domains.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2026)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/250218

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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