

Special Issue

Artificial Intelligence in Biomarker Discovery 2.0

Message from the Guest Editor

Biomarkers are the cornerstone of precision medicine. Over the last two decades, high-throughput technology in biomedicine has demonstrated significant advancements, leading to a vast accumulation of publicly available precious x-omics high-dimension biological datasets, presenting welcoming opportunities for new science. Innovative bioinformatic artificial intelligence (AI) tools promise to enable the exploitation of these data, shifting the global scientific trend from hypothesis- to data-driven approaches. Modern statistical and machine learning methods perform predictive modeling and knowledge discovery. This brings unprecedented added value in different medical conditions, gaining intuition into the molecular pathological mechanisms of disease, identifying novel drug targets, or designing emerging cost-effective assays for improving diagnoses, prognoses, or response prediction, readily available for clinical application. This Special Issue plans to offer an overview of recent advances in data-driven-approach-aided state-of-the-art AI in diverse areas of biomedical research, with an emphasis on biomarker discovery.

Guest Editor

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