

Special Issue

A New Era in Diagnosis: From Biomarkers to Artificial Intelligence

Message from the Guest Editors

Exploring new diagnostic approaches utilizing biomarkers and artificial intelligence (AI) has become increasingly significant in recent years. In fact, technologies such as AI and machine learning possess potential power to change the diagnosis of cancer treatment and identify predictive biomarkers. The scope of the Special Issue includes developing multimodal machine learning, a subfield of machine learning that works on the development and training of models to leverage the potential of various data sources—genomic, proteomic, imaging data—to improve their predictability performance. It has the advantage of being able to integrate different data modalities. These breakthroughs reinforce the critical role of AI and machine learning in enhancing understanding and capacity toward the proper diagnosis and treatment of diseases. These are necessary in an era of precision medicine, in which data-driven insights steer health solutions into more accurate and effective directions.

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