Special Issue

Integration of Genomics and Diagnostics in AI-Driven Precision Oncology

Message from the Guest Editor

Cancer diagnosis- and treatment response-related genomic data are becoming essential resources in precision oncology. Their interpretation and utilization require significant expertise and heavily rely on the knowledge of molecular oncologists, which may introduce biases. However, with the growing integration of artificial intelligence (AI) and genomics, major advancements have been made in understanding cancer biology and predicting treatment outcomes. In particular, AI-driven models and algorithms have shown remarkable potential in processing large-scale genomic data, identifying key genetic mutations, and predicting patient responses to therapies, all of which are crucial for personalized cancer treatment strategies.

Guest Editor

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