

Special Issue

Molecular Informatics and AI in Cancer Research

Message from the Guest Editors

The convergence of molecular informatics and artificial intelligence (AI) is catalyzing a revolution in cancer research and care. Cancer's complexity, driven by inter- and intratumoral heterogeneity, demands sophisticated analytical approaches. High-throughput technologies generate vast amounts of molecular data, offering deep insights and posing significant analytical challenges. Molecular informatics involves systematically generating, managing, analyzing, and interpreting diverse molecular datasets (such as genomics, epigenomics, and proteomics) to illuminate cancer biology. AI creates machines for tasks requiring human intelligence, such as reasoning, learning, and decision-making.

Ultimately, this fusion heralds a new era of predictive, personalized, and equitable oncology, requiring sustained multidisciplinary collaboration and robust ethical frameworks to translate technological innovations into meaningful improvements in patient outcomes globally.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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