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Special Issue Reprint

Molecular Classification of Human Cancer

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This Special Issue, "Molecular Classification of Human Cancer: Diagnosis and Treatment", presents a comprehensive collection of research papers and reviews that highlight the paradigm shift from traditional histopathology to molecularly driven cancer taxonomy. Recognizing that cancer is not a single disease but a collection of distinct molecular entities, this work showcases how genomic, microRNA, proteomic, and epigenetic signatures are being integrated into clinical practice. Topics include the subclassification of breast cancer, lung cancer, medulloblastoma, and other malignancies; the application of next-generation sequencing; and the development of biomarker-driven targeted therapies. This Reprint demonstrates how precise molecular classification enables accurate patient stratification, prediction of treatment response, and improved clinical outcomes. It is an essential resource for oncologists, pathologists, and translational researchers seeking to understand the impact of molecular diagnostics on personalized cancer care and the future of precision oncology.

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