

Special Issue

Metabolomics in Cancer: From Biomarkers to Therapeutic Insights

Message from the Guest Editors

As the most downstream layer of the omics cascade, metabolomics provides the molecular profile most closely reflecting phenotype. Profiling metabolites in biological systems enables a functional understanding of tumour initiation, therapeutic response, resistance, and treatment toxicity.

This Special Issue offers a platform for the design, development, and translational application of metabolomics in cancer research. Emphasis is on discovering, validating, and identifying metabolic vulnerabilities for therapeutic strategies and biomarkers. Submissions incorporating advanced analytical platforms with computational approaches are encouraged. These include machine learning, network analysis, and multi-omics integration with clinical parameters. Such frameworks are essential for systems-level understanding of tumour biology and identifying therapeutic targets for precision oncology.

This Special Issue will promote interdisciplinary research, accelerating metabolomics-driven biomarkers and therapeutic innovations to develop more effective cancer interventions.

Guest Editors

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