

Special Issue

Advances in Translational Oncology and Oncometabolism

Message from the Guest Editors

Recent advances in oncometabolism have deepened our understanding of the metabolic alterations in cancer cells, highlighting the potential for metabolic-based diagnostics and therapies in oncology. Tumour metabolism has been identified a newer hallmark of cancer that supports their rapid growth and survival. Many oncogenes and tumour suppressor genes regulate metabolism as part of their mechanism in driving tumorigenesis. Recent technological advancements in oncometabolism include high-throughput techniques to enable the comprehensive analysis of metabolic profiles and identify metabolic alterations in cancer cells. Cancer cells often undergo significant metabolic changes to meet the bioenergetic and biosynthetic demands of rapid proliferation. Cancer stem cells are often linked to altered tumour metabolism and failure to respond to various cancer treatments. Identifying specific oncometabolites can lead to development of diagnostic biomarkers for early cancer detection. Furthermore, understanding how the tumour microenvironment influences metabolism in the context of molecular mutations could pave the way for more effective, personalized therapies across various types of cancer.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

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