

Special Issue

Metabolic Plasticity and Epigenetic Rewiring in Solid Tumors

Message from the Guest Editors

This Special Issue will identify state-of-the-art research on the intertwined contributions of metabolism and epigenetics in tumor plasticity. By proposing the "metabolic–epigenetic axis," it will transcend traditional approaches to identify nodal points for innovative therapeutic co-targeting.

In their rapid proliferation, solid tumors generate a hostile microenvironment by outgrowing vascularization, limiting cellular access to oxygen and nutrients. To survive, tumor cells undergo adaptive metabolic reprogramming to improve fitness and sustain redox homeostasis. Among numerous intrinsic factors, epigenetic reprogramming is crucial for unlocking phenotypic plasticity and deregulating metabolism. Thus, the interplay between epigenetic and metabolic reprogramming allows subclonal populations to diversify survival tactics in harsh conditions.

Collectively, this Special Issue will assess how the crosstalk between aberrant metabolism and altered epigenome challenges the development of effective therapies, particularly addressing low efficacy of standard therapies in drug-resistant tumors and immunotherapy limitations in cancers.

Guest Editors

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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