

Special Issue

Targeting Cancer Metabolism: From Mechanism to Therapies

Message from the Guest Editor

In recent decades, the etiopathogenesis of cancer has focused on genetics. More recently, the possible involvement of metabolic alterations in oncological processes has been documented in greater detail. Unlike healthy cells, cancer cells often rely on glycolysis for energy production, even in the presence of oxygen—a phenomenon known as the Warburg effect, as first reported in 1924 by Otto Warburg. This metabolic shift supports rapid cell growth and survival under stressful conditions. Changes in the expression of enzymes involved in glucose metabolism constitute a fundamental aspect of metabolic reprogramming, and these unique metabolic pathways present high-potential targets and promising avenues for new cancer therapies. However, several questions remain, for example, the degree to which genetics may promote metabolic disorders subsequently driving emergence of cancer, or whether some cancers may be the result of a dysregulated metabolism alone and how the latter may be prevented. We invite researchers and professionals to share their latest findings and insights on this important topic.

Guest Editor

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