

Special Issue

Molecular Mechanisms of Animal Metabolism: Pathophysiological Implications in Tumor Progression

Message from the Guest Editor

The molecular mechanisms of animal metabolism play a crucial role in regulating energy production, biosynthesis, and cellular homeostasis, which, in the context of cancer, often undergo profound reprogramming to meet the increased energy and biosynthetic demands of rapidly proliferating tumor cells. Key alterations include enhanced glycolysis, increased glutamine metabolism, and lipid biosynthesis, among others, which collectively support tumor growth, survival, and metastasis. Moreover, the tumor microenvironment can exert additional pressure that shapes cancer metabolism and contributes to drug resistance. This Special Issue, "Molecular Mechanisms of Animal Metabolism: Pathophysiological Implications in Tumor Progression", aims to explore the metabolic mechanisms involved in the tumor progression of animal tumor diseases, allowing for a better understanding of their pathogenesis and the identification of potential therapeutic targets.

Guest Editor

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Message from the Editor-in-Chief

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