

Special Issue

Role of Protein Post-Translational Modifications in Cancer: Mechanisms and Therapeutic Opportunities

Message from the Guest Editors

Post-translational modifications (PTMs) represent a major biochemical mechanism for increasing the diversity of the proteome, allowing proteins to undergo functional changes that can be dynamically adjusted in response to both intracellular and extracellular signals. In cancer, PTMs such as phosphorylation, ubiquitination, acetylation, glycosylation, and methylation are not merely secondary modifications; rather, they influence virtually every hallmark of cancer. These and other modifications regulate key cellular functions such as cell cycle progression, apoptosis, DNA repair, immune responses, and metabolism. However, cancer cells frequently hijack PTMs,.....

This Special Issue will collect the latest research on the pivotal roles of PTMs in the diverse stages and forms of cancer, with particular interest in mechanistic studies aimed at revealing how specific PTMs contribute to tumor initiation, progression, and metastasis. Furthermore, comprehensive reviews of current treatments targeting PTMs, which should examine the efficacy of existing therapies and highlight new therapeutic avenues, will be welcomed.

Guest Editors

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