

Special Issue

Molecular Mechanisms and Regulation of Glycoproteins in Cancer Biology

Message from the Guest Editor

Glycoproteins play a crucial role in cancer development and progression by influencing various cellular processes such as cell signaling, adhesion, immune evasion, exosomal secretion and uptake, and metastasis. Aberrant glycosylation of proteins—a common feature in many tumors—can alter the structure and function of glycoproteins, leading to enhanced tumor growth and invasiveness. Additionally, tumor-associated glycoproteins can modulate immune recognition, enabling cancer cells to escape immune surveillance. Because of their distinct expression patterns, glycoproteins are being explored as biomarkers for early cancer detection and as targets for novel therapeutic interventions. More importantly, we are just beginning to understand the intricate ‘glyco-codes’ read by the ever-expanding tumor-associated lectins that could define the next generation of cancer therapy. The goal of this Special Issue is to highlight the mechanisms that drive tumor progression driven by glycoproteins, as well as how they can be harnessed to improve cancer therapy.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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