

Special Issue

Advances in Glycoproteomics— Developments in Methodology and Biological Applications

Message from the Guest Editors

Protein glycosylation is one of the most common and complex post-translational modifications. These include N-glycosylation (asparagine), O-glycosylation (serine and threonine), and C-mannosylation (tryptophan). The attached oligosaccharides play structural, protective, and stabilizing roles in living cells and are involved in diverse biological mechanisms. Over the past decades, major progress has been made in uncovering the roles of glycans in biological processes and human diseases. This advancement has been largely driven by mass spectrometry-based glycoproteomics, which enables the characterization of peptide sequences and glycan compositions of glycopeptides, as well as elucidation of their functional roles. We are pleased to invite original research articles and reviews to this Special Issue, which focuses on advances in mass spectrometry (MS)-based protein glycosylation analysis. Topics of interest include, but are not limited to, sample preparation strategies, MS analysis, bioinformatic tools and workflows, and application in systems biology and biomarker discovery. We look forward to receiving your contributions.

Guest Editors

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Message from the Editor-in-Chief

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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