Special Issue

Integrative Proteomics in Multifactorial Diseases

Message from the Guest Editor

Mass spectrometry-based proteomics is a crucial technology for advancing our understanding of biology and diseases. Recent breakthroughs made in proteomic technologies have allowed researchers to explore uncharted research areas, including post-translational modifications, interactomes, circulating proteomes, and immunopeptidomes. In addition, the integrative analysis of proteomics data with other omics data such as genomics, transcriptomics, and metabolomics is rapidly becoming a novel strategy used to achieve the next level of discoveries in biomarkers, therapeutic targets, drug targets, and the development of sensors. This Special Issue will collect studies related to the recent development of proteomic methods and their applications to research related to multifactorial diseases such as cancers, neurodegenerative diseases, and metabolic diseases, focusing on how proteomics and integrative multi-omics characterize the pathophysiology of diseases and help us to discover biomarkers, therapeutic targets, and sensor platforms.

- mass spectrometry
- proteomics
- immunopeptidome
- post-translational modification
- multi-omics
- systems biology
- precision medicine

Guest Editor

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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