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Proteomics in Immunology and Cell Signaling

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Message from the Guest Editor

Dear Colleagues,

Proteomics, especially mass spectrometry (MS)-based techniques, offers comprehensive insights into global protein dynamics. Recent advancements in sample preparation, high-resolution MS instruments, and data analysis tools have enhanced the speed and sensitivity of proteome characterization. A detailed understanding of cellular signaling mechanisms associated with immune system activation is crucial.

This Special Issue, titled 'Proteomics in Immunology and Cell Signaling,' seeks original articles and reviews elucidating the impact of proteomics on advancing knowledge in immune system function and regulation. Emphasis is placed on cellular signaling events during immune system activation.

Topics of special interest include the following:

- Detailed understanding of the cell-signaling mechanisms of immune system activation, including quantitative proteome analysis as well as the global mapping of post-translational modicifcations like phosphoproteomics;
- Proteomics to characterise the role of extracellular vesicles in the immune response and intracellular signaling cascades;
- Immunopeptidomics;
- How proteomics can contribute to clinical research.

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