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Proteins: Proteomics and Beyond

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Message from the Guest Editors

Recent technological advancements in mass spectrometry-based high-throughput proteomics have redefined the biomedical sciences and have played a key role in understanding human diseases. Proteins are the molecules that dictate the structure, function, metabolism, and signaling events in the cells. They also play a crucial role in prognosis, diagnosis, and drug responsiveness to a disease.

The roles proteins play in the disease-specific cellular circuitry cannot be exclusively attributed to the primary structure but are also impacted by spatio-temporal expression changes, folding, post-translational modifications, protein-protein, protein-DNA, and protein-ligand interactions, which can be deciphered with the help of proteomic tools.

In this special issue of *Genes* on “Proteins: Proteomics and Beyond” we aim to compile a series of original and review articles focusing on experimental and theoretical approaches addressing the structure-function relationship, proteins or proteomic profiles in various biological systems, protein evolution, protein engineering and designs, molecular interactions, protein folding, post-translational modification (PTM), and protein biomarkers.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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