Special Issue

Role of Protein Tyrosine Phosphatases in Signaling and Emerging Therapeutic Strategies

Message from the Guest Editors

During the last few decades, protein tyrosine phosphatases (PTPs) have gained increasing attention as we came to understand the key role of tyrosine phosphorylation in intracellular signaling. However, the specificity of protein phosphatases and many of their crucial functions in the regulation of signal transduction remain to be elucidated. Since the balanced activity of PTPs and protein tyrosine kinases (PTKs) is essential for the regulation of tyrosine phosphorylation at the level of the whole organism, the disruption of this balance underlies a wide variety of diseases. Thus, the interest in PTPs (including the receptor-like class) as main targets for drug design is rapidly increasing in areas like metabolic disorders, cancer, neurodegenerative diseases, and neuropsychiatric disorders. This Special Issue aims to highlight the molecular mechanisms regulated by PTPs in health and disease, with a focus on emerging therapeutic targets. Both original research articles and reviews are welcome.

Guest Editors

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Message from the Editor-in-Chief

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