

Special Issue

Molecular Research on Carbohydrate Metabolism

Message from the Guest Editors

In cell, tissue, organ, and individual sides, monosaccharide (glucose) is considered the basic unit and main nutrient resource for maintaining human physiological functions and metabolism. Carbohydrate metabolic reprogramming and its related enzyme activity abnormalities are regarded as the key factors related to chronic diseases, inflammation, and even carcinogenesis. These changes include glycolysis, tricarboxylic acid (TCA) cycle, mitochondrial function, pentose phosphate pathway (PPP), and gluconeogenesis. Our goal is to show the enzyme activity, transporters, metabolites, and gene expression among them and indicate their prognostic value, probes, modulators, and therapeutic targets. We encourage the publication of original research articles and comments that cover all aspects of glycolytic enzymes. Contributions to this Special Issue will provide new insights into the mechanisms and functions of carbohydrate metabolism, deepen our understanding of their biological role in health and disease, and reveal novel aspects of therapeutic opportunities.

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