

Special Issue

Lipid Metabolism Pathways: From Life to Disease

Message from the Guest Editor

Lipid metabolism is a highly regulated process that is essential in both life and disease. Lipids contribute to the regulation of normal cellular processes like membrane dynamics, energy homeostasis, and cell survival and play a critical role in signal transduction pathways. For these reasons, the dysregulation of lipid metabolism can have a large impact on normal cell function, including the regulation of energy metabolism and the structural integrity of cellular membranes, and can also impact therapeutic responses in several different diseases. Indeed, altered lipid metabolism is associated with various disease states, such as neurodegenerative diseases, metabolic syndrome, cardiovascular disease, and cancer. Current methods for targeting lipid metabolism pathways include disrupting lipid synthesis and uptake or oxidation pathways. In this Special Issue, we aim to present advances in our understanding of lipid metabolism in life and disease, emphasizing the importance of key lipid species like phospholipids, sphingolipids, sterols, and triglycerides and how they regulate critical cell processes such as apoptosis, autophagy, and oxidative phosphorylation, among others.

Guest Editor

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