

Special Issue

Protein Synthesis and Disease

Message from the Guest Editor

The ability of cells to adapt to stress is crucial for their survival. The stress conditions that cells must respond to—such as hypoxia, inflammation, and drug exposure—often feature prominently in varied pathological states such as cancer, diabetes, and obesity. One of the key cellular adaptation strategies that have evolved to allow organisms to respond to such conditions includes the regulation of protein synthesis (mRNA translation), providing the rapid and reversible regulation of the cellular proteome. Closely regulated protein synthesis plays a central role in virtually all fundamental biological processes; conversely, dysregulated translation has been implicated in disease pathogenesis. Although protein synthesis has been studied for over eight decades, the basic mechanistic underpinnings of gene expression regulation at the translation level during pathological conditions are still not completely understood. This Special Issue, “Protein Synthesis and Disease”, will cover a selection of recent research topics and current review articles specifically examining the role of dysregulated protein synthesis in disease.

Guest Editor

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