

Special Issue

Cell Organelle Stress Responses and Implications in Human Diseases

Message from the Guest Editor

Cellular organelles are specialized structures within cells that perform distinct functions necessary for cell survival and homeostasis. Examples of these include the endoplasmic reticulum (ER), the mitochondria, the lysosomes, the Golgi apparatus, and the nucleus. Each organelle faces various stress conditions that can disrupt its normal function, leading to a cascade of cellular dysfunctions. Organelle stress responses are adaptive mechanisms that cells employ to cope with and mitigate the detrimental effects of stress and are crucial to maintaining cellular homeostasis and preventing cell death. However, chronic or overwhelming stress can lead to pathological conditions and contribute to the development of various human diseases. This Special Issue aims to explore the diverse mechanisms of organelle stress responses and their implications in various human diseases. By understanding how different organelles respond to stress and the pathological consequences of these responses, we can identify novel therapeutic targets and strategies to treat or prevent diseases associated with organelle dysfunction.

Guest Editor

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