Special Issue

Crosstalk with Unfolded Protein Response (UPR) Signaling Networks

Message from the Guest Editor

Accumulation of misfolded or unfolded protein inside the endoplasmic reticulum activates the unfolded protein response (UPR) pathways. The UPR promotes cell survival by restoring ER protein homeostasis (adaptive response), but if it fails, the UPR induces cell death (apoptotic response). According to the current model, three ER-transmembrane proteins (IRE1, PERK, and ATF6) sense and signal the UPR. The recent biological information from genome, proteome, and related projects indicates that components of several intracellular signaling pathways act as effectors and modulators of the UPR pathways. Therefore, the UPR should not be viewed as three independent signaling pathways, but instead as a network of integrated signaling pathways. In this Special Issue, we seek to publish a collection of original research articles, mini reviews, and commentaries related to the crosstalk and coregulation of the UPR pathways to synergistically modulate the adaptive and/or apoptotic responses.

Guest Editor

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