Special Issue

Roles of Endoplasmic Reticulum Stress in Immune Responses

Message from the Guest Editor

The endoplasmic reticulum (ER) is an important intracellular organelle for protein synthesis, protein folding, protein modification, lipid synthesis, and calcium storage. Impaired ER function causes ER stress due to the accumulation of misfolded or unfolded proteins in the ER lumen. There has been extensive research in the field of ER stress over the past few decades. Although many studies have reported that ER stress modulates immune responses, the mechanisms by which the UPR signaling pathway regulates ER stress remain unclear. Moreover, research on how ER stress plays a role in the pathogenesis of immune disorders is expected to lead to the development of new immunotherapies targeting the UPR pathway. This Special Issue aims to present aspects of ER stress and the UPR in immune responses, including differentiation, maturation, cell–cell interaction, and cytokine expression in immune cells. We invite authors to submit original research papers and review articles on any aspect of the role of ER stress and UPR signaling in immune responses.

Guest Editor

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Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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