



# Oxidative Medicine and Cellular Longevity

## Special Issue on **Cellular, Endoplasmic Reticulum-Associated, and Oxidative Stresses**

# CALL FOR PAPERS

Recent advancements in molecular discovery underscore the ubiquity of processes leading to the diametrically opposed cellular events of differentiation or apoptosis. Molecular events controlling cell fate appear to be regulated in multistep processes at either a second messenger or modal epigenetic level. Failure of regulatory check points contributes to pathology, making many of these molecules putative therapeutic targets. Cellular, ER-associated, nutritional, and oxidative stresses constitute forces that determine and enhance cellular response. These stresses are significant determinants of physiology in health and disease.

We invite investigators to contribute original research as well as review articles that will stimulate the continuing efforts to understand the role of cellular, ER-associated, and oxidative stresses in orchestrating molecular events that determine cell fate. Of particular interest is role of stress in originating or exacerbating pathogenesis and progression of neurobiological, pulmonary, cardiovascular, renal, and immunological diseases and in cancer. For the purposes of this special issue we define ER stress as the misfolded protein response, cell stress as nutritional paucity or misfolded protein response, and oxidative stress as the induction of the ROS and glutathione, catalase, NOS, and superoxide dismutase systems. The following topics should help guide authors.

Potential topics include, but are not limited to:

- ▶ Cellular, ER-associated, and oxidative stress pathways in health and disease
- ▶ The role of chaperone proteins in disease
- ▶ Innovations in pharmacology based on cellular, ER-associated, and oxidative stress pathways
- ▶ Herbal remedies and dietary supplements and cellular, ER-associated, and oxidative stresses
- ▶ Biomarkers of stress induction in pathogenesis

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