

Special Issue

Cellular Models of Oxidative Stress

Message from the Guest Editor

Oxidative stress is acknowledged as being involved in a large number of pathologies. It is the result of an imbalance between the production of reactive oxygen species, whether they are endogenous or coming from exogenous sources, and the protection against these species, whether through enzymatic or non-enzymatic mechanisms. Elevated levels of pro-oxidants are involved in the pathogenesis of a variety of pathologies: cancer, atherosclerosis, hypertension and cardiovascular disease, neurodegenerative diseases, diabetes mellitus, and aging. Understanding oxidative stress is a research priority, and to this end, there is an absolute necessity to design and validate models, particularly based on isolated cells, for thorough investigations. Such models need to be coupled with multidisciplinary approaches to clarify the mechanisms, develop and validate new biomarkers to detect these mechanisms at the earliest possible time, as well as design and test new therapeutic protocols to better manage oxidative stress and significantly improve patients' quality of life.

Guest Editor

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