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Oxidative Stress and Inflammation: From Mechanisms to Therapeutic Approaches

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Message from the Guest Editor

Dear Colleagues,

Oxidative stress and inflammation are two phenomena that are directly involved in practically all pathologies and especially in aging. However, they are not only involved in processes associated with damage. For instance, oxidative stress, which is associated with the redox state, constitutes an important mechanism in many physiological processes, such as adaptations to physical exercise, cell signaling, and hypothalamic regulation of appetite. Regarding inflammatory mediators, it is also known that they are essential in mechanisms such as the generation of gastric mucus for the protection of the stomach and the repair of tissues via the mobilization of stem cells. However, when these two phenomena are deregulated, their action is harmful. In this Special Issue, we ask ourselves several questions: How and when should we allow or block oxidative stress and inflammation? What is the advisable dose of antioxidant or anti-inflammatory therapy associated with aging? Are diet, physical exercise, and decreased psychological stress the best therapies for oxidative stress and inflammation control?

Dr. Juan Gambini

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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