

## Special Issue

# Role of Oxidative Stress in Onset and Progression of Diseases

### Message from the Guest Editors

Oxidative stress is widely known for being engaged in the pathogenicity of numerous illnesses, including inflammation, atherosclerosis, ischemic diseases, neurodegenerative diseases, hypertension, aging, cancer, and diabetes mellitus. Since a detailed analysis of these stresses is essential both to analyze different pathological conditions and to examine the effectiveness of medications, the biomarkers used to assess oxidative stress have been gaining importance. In this Special Issue, the current experimental and therapeutic evidence will be established to identify oxidative stress-mediated disease and pathophysiological mechanisms, which can serve as a source of future research.

**Keywords:** Oxidative stress, Antioxidants, Redox, Aging, Cancer, Metabolism, Immunity, Metals, Infection, Cardiovascular, and Vascular Disease, Neurological disorders, medicinal plants, microbiome, bacteria, Fungi, viruses, fish, pharmacology, toxicology, sphingolipids, ceramide, sphingomyelin, organic synthesis, Immunopathogenesis, COVID-19, microRNA, Steroidal Alkaloids, Antimicrobial action, Nanoparticles, plant stress tolerance

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