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Toxic Agents-Induced Oxidative Stress and Antioxidant Potential of Medicinal Plants

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Message from the Guest Editor

Interest related to the origin of free radicals and the role of antioxidants has arisen owing to the fact that free radicals are highly reactive and unstable molecules with a significant impact on the human biological system. Extensive research has classified different types of free radicals within three main categories: reactive oxygen species (ROS), reactive nitrogen species (RNS) and reactive sulfur species (RSS). The origin of radicals can be endogenous, while exogenous sources may be air pollution, ultraviolet radiation, alcohol, smoking, heavy metals, pesticides and certain drugs. Oxidative stress has been associated with more than one hundred pathologies (atherosclerosis, diabetes, cardiovascular diseases, pancreatic and liver diseases, joint disorders, cardiac fibrosis, acute respiratory distress syndrome, neurological diseases, aging, cancer, etc.). Antioxidant evaluation techniques or mechanisms via which medicinal plants act as antioxidants may be added value to the optimization of antioxidant ranks.



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Message from the Editor-in-Chief

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