



## Free radical biology and environmental toxicity /

Kesari, Kavindra Kumar  
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Monografía

The main aim of this book is to collect a series of research articles and reviews from a diverse group of scientists to share their research work on the role of free radical research and environmental toxicity. This book presents various state-of-the-art chapters of recent progress in the field of cellular toxicology and clinical manifestations of various disorders. Topics include cell signaling, various risk factors, the pathophysiology of disease instigation and distribution, mechanistic insights into metal and nanoparticle toxicity, neural toxicity, nongenotoxic carcinogenicity, immune and idiosyncratic toxicity, prevention, biomarkers related to disease progression and therapeutic strategies. In particular, this book provides valuable insight for researchers, pathologists, and clinicians with an interest in toxicological research and cellular impairments with special emphasis on therapeutic advancement

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**Contenido:** Male infertility: a complete guide to lifestyle and environmental factors -- Use of folic acid in the treatment of oxidative-stress associated male infertility: a myth or reality? -- Methylglyoxal induced mitochondrial perturbation and neuronal toxicity in Alzheimer disease -- Free radicals-mediated oxidative damage in memory loss: Are antioxidant therapies useful? -- ROS-induced neural toxicity in Parkinson's Disease -- Cyclin-dependent Kinase in oxidative stress and development of cancer -- Radiation induced free radical formation lead to head and neck cancer -- Pathophysiology of radiations: Radiofrequency electromagnetic radiation oxidative stress and carcinogenesis -- Heavy metal contamination induced oxidative stress lead to neurodegenerative diseases -- Networking of nanoparticles toxicity in environment and possible role of ROS in disease mechanism -- Free radicals and microbes in nature -- Relevance of ROS and NOS in Leishmaniasis: A recent update -- Alcohol-induced neuronal toxicity in Alzheimer disease

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