



Oxidative Stress and Antioxidant Protection: The Science of Free Radical Biology and Disease

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Oxidative Stress and Antioxidant Protection: The Science of Free Radical Biology and Disease provides an overview of the basic principles of free radical formation. The text delves into free radical formation in molecular biology and its effect on subcellular damage, as well as the role of antioxidant reserves as a protective mechanism.

Oxidative Stress and Antioxidant Protection begins with a historical perspective of pioneers in oxidative stress with an introductory section that explains the basic principles related to oxidative stress in biochemistry and molecular biology, demonstrating both pathways and biomarkers. This section also covers diagnostic imaging and differential diagnostics. The following section covers psychological, physiologic, pharmacologic and pathologic correlates. This section addresses inheritance, gender, nutrition, obesity, family history, behavior modification, natural herbal-botanical products, and supplementation in the treatment of disease. Clinical trials are also summarized for major medical disorders and efficacy of treatment, with particular focus on inflammation, immune response, recycling, disease progression, outcomes and interventions. Each of the chapters describes what biomarker(s) and physiological functions may be relevant to a concept of specific disease and potential alternative therapy. The chapters cover medical terminology, developmental change, effects of aging, senescence, lifespan, and wound healing, and also illustrates cross-over exposure to other fields. The final chapter covers how and when to interpret appropriate data used in entry level biostatistics and epidemiology.

Authored and edited by leaders in the field, *Oxidative Stress and Antioxidant Protection* will be an invaluable resource for students and researchers studying cell biology, molecular biology, and biochemistry, as well professionals in various health science fields.

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