



Oxidative Stress: Eustress and Distress

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Offers a conceptual framework for studying oxidative stress, emphasizing major enzyme systems (oxidative eustress) and the modification of major biomolecules (oxidative distress)

KEY FEATURES

- Characterizes oxidative stress within the framework of redox biology, redox signaling, and medicine
- Empowers researchers and students to quantify specific reactants noninvasively, identify redox biomarkers, and advance translational studies
- Features contributions from international leaders in oxidative stress and redox biology research

DESCRIPTION

Oxidative Stress: Eustress and Distress presents current knowledge on oxidative stress within the framework of redox biology and translational medicine. The book describes eustress and distress in molecular terms, with novel imaging and chemogenetic approaches in four sections, including a conceptual framework for studying oxidative stress, processes and oxidative stress responses, signaling in major enzyme systems (oxidative eustress), and the damaging modification of biomolecules (oxidative distress). Health and disease processes, including ischemia-reperfusion injury, developmental and psychological disorders, hepatic encephalopathy, skeletal muscle disorders, pulmonary disease, gut disease, organ fibrosis, and cancer are also included.

This book is an informative resource for active researchers and students in biochemistry, molecular biology, medicinal chemistry, pharmaceutical science, nutrition, exercise physiology, analytical chemistry, cell biology, clinical medicine, and environmental science, as well as clinician scientists.



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