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Titolo Modulation of Oxidative Stress in Heart Disease / / edited by Sajal

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Oxidative Stress

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Sommario/riassunto

This book highlights the multifaceted roles of Reactive Oxygen Species (ROS) in modulating normal cellular and molecular mechanisms during the development of different types of heart disease. Each chapter in the book deals with the role that altered redox homeostasis plays in the pathophysiology of heart disease. In addition, the book explains how reactive oxidant species interact with their targets and provides novel strategies for attenuating oxidative stress-induced types of heart

disease. The book not only covers ROS-induced response in heart disease at the cellular level, but also demonstrates that an imbalance of redox states has its roots in our genes, and explains the ways gene expression is regulated. In turn, it reviews potential sources of ROS, their pathological effects on the heart, and potential sites for therapeutic interventions.