

1. Record Nr.	UNINA9910373919303321
Titolo	Oxidative Stress in Heart Diseases // edited by Sajal Chakraborti, Naranjan S Dhalla, Nirmal K Ganguly, Madhu Dikshit
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-8273-5
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XIII, 596 p. 66 illus.)
Disciplina	571.6
Soggetti	Cell biology Cardiology Biochemistry Biomedical engineering Health promotion Cell physiology Cell Biology Biochemistry, general Biomedical Engineering/Biotechnology Health Promotion and Disease Prevention Cell Physiology Estrès oxidatiu Malalties del cor Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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#### Sommario/riassunto

This book bridges the gap between fundamental and translational research in the area of heart disease. It describes a multidisciplinary approach, and demonstrates biochemical mechanisms associated with dysregulation of redox signaling, which leads heart disease. Presenting recent studies on improved forms of ROS scavenging enzymes; specific inhibitors for different ROS generating enzymes; and oxidant induced signaling pathways and their antagonists that allow subtle modulation of redox signaling, it also discusses the spatial and temporal aspects of oxidative stress in the cardiovascular system, which are of vital importance in developing better strategies for treating heart disease. Each chapter offers researchers valuable insights into identifying targets for drug development for different types of heart disease.

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