

1. Record Nr.	UNINA9910350354303321
Titolo	Oxidative Stress in Lung Diseases : Volume 1 // edited by Sajal Chakraborti, Tapati Chakraborti, Salil Kumar Das, Dhrubajyoti Chattopadhyay
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-8413-4
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XX, 491 p. 74 illus., 64 illus. in color.)
Disciplina	571.9453
Soggetti	Oxidative stress Respiratory organs—Diseases Human physiology Molecular biology Medical biochemistry Biomedical engineering Oxidative Stress Pneumology/Respiratory System Human Physiology Molecular Medicine Medical Biochemistry Biomedical Engineering/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part A. General implications of oxidative stress on lungs -- Chapter 1. The nutrition in inflammatory lung diseases. Chapter 2. Oxidative Stress And Smoke Related Lung Diseases: A Tentative Approaches through blood, lungs and gut -- Chapter 3. Oxidative stress in neonatal lung diseases -- Chapter 4. DNA repair protein OGG1 in pulmonary infection and other inflammatory lung diseases -- Chapter 5. The dual role of oxidative stress in lung cancer -- Chapter 6. Cigarette smoke induced oxidative stress in type I and type II lung epithelial cells -- Chapter 7. Infectious lung diseases and Endogenous oxidative stress -- Chapter 8. Role of MMPs and Oxidants in Lung

Diseases -- Chapter 9. Effect of exogenous chemical exposure-response relationship condensate oxidative stress in lung disease -- Part B. Inflammatory lung diseases -- Chapter 10. Oxidative stress and immune regulation during chronic respiratory diseases -- Chapter 11. Immunological basis of oxidative stress induced lung inflammation in asthma and COPD -- Chapter 12. Contribution of Aldose Reductase-Mediated Oxidative Stress Signaling in Inflammatory Lung Diseases -- Chapter 13. Oxidative Stress and Pulmonary Carcinogenesis through Mechanisms of Reactive Oxygen Species. How Respirable Particulate Matter, Fibrous Dusts and Ozone Cause Pulmonary Inflammation and Initiate Lung Carcinogenesis -- Part C. Other lung diseases -- Chapter 14. The Redoxomics of Bronchopulmonary Dysplasia -- Chapter 15. Oxidative stress in environmental lung diseases -- Chapter 16. Bronchopulmonary Dysplasia and Oxidative Stress in the Newborn -- Chapter 17. Pulmonary Oxidative Stress and Antioxidant Defence System in the Lung Aging, and Fibrotic and Diabetic Lungs -- Chapter 18. Mitochondrial alterations and oxidative stress in cystic fibrosis -- Part D. Degenerative lung diseases -- Chapter 19. Oxidative stress in chronic obstructive pulmonary disease -- Chapter 20. Oxidative stress induced autophagy-impairment and pathogenesis of chronic obstructive lung diseases -- Part E. Prevention and Therapeutics -- Chapter 21. Therapeutic targeting of oxidative stress and inflammation in Asthma and COPD and Pharmacological interventions with Phytochemicals -- Chapter 22. Diallyl trisulfide prospectively rescues Arsenic induced lung oxidative stress, inflammation through the activation of Nrf2/HO-1 signaling -- Chapter 23. Molecular therapeutic targets in tobacco-induced lung pathology. .

Sommario/riassunto

This first volume of the comprehensive, two-volume work on oxidative stress in lung disease introduces the molecular mechanisms, and the role of oxidants in the progression of different lung diseases. The lungs of humans and animals are under constant threat from oxidants from either endogenous (e.g. in situ metabolic reactions) or exogenous sources (e.g. air pollutants). Further, oxidative stress causes the oxidation of proteins, DNA and lipids, which in turn generates secondary metabolic products. The book consists of sections, each focusing on different aspects of oxidant-mediated lung diseases. As such it is a unique reference resource for postgraduate students, biomedical researchers and also for the clinicians who are interested in studying and understanding oxidant-mediated lung diseases. The second volume will incorporate other aspects of oxidant-mediated lung diseases, including prevention and therapeutics. .
