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Titolo	Oxidative Stress in Lung Diseases [[electronic resource]] : Volume 2 // edited by Sajal Chakraborti, Narasimham L. Parinandi, Rita Ghosh, Nirmal K. Ganguly, Tapati Chakraborti
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Nota di contenuto	Part A -- Chapter 1. The effects of oxidative stress on the pulmonary surfactant and the role of lipids in this scenario -- Chapter 2. Oxidative stress in experimental models of acute lung injury -- Chapter 3. Potential of mesenchymal stem cells in modulating oxidative stress in the management of lung diseases -- Chapter 4. Role of NADPH oxidase induced oxidative stress in matrix metalloprotease-mediated lung diseases -- Chapter 5. Oxidative stress mechanisms in the pathogenesis of environmental lung diseases -- Part B -- Chapter 6. Oxidative stress induced mitochondrial dysfunction and asthma -- Chapter 7. Regulation of antioxidant Nrf2 signaling, an important pathway in COPD -- Chapter 8. Role of smoke-induced oxidative stress in pathogenesis of chronic obstructive pulmonary disease -- Chapter 9. Oxidative stress in obstructive and restrictive lung diseases -- Chapter 10. The use of ozone as redox modulator in the treatment of the chronic obstructive pulmonary disease -- Chapter 11. TRP channels,

oxidative stress and chronic obstructive pulmonary disease -- Chapter 12. Paraquat induced oxidative stress and lung inflammation -- Chapter 13. Environmental, occupational and cancer drug induced oxidative stress in lung fibrosis -- Part C -- Chapter 14. Respiratory syncytial virus-induced oxidative stress in lung pathogenesis -- Chapter 15. Reactive oxygen species: Friends or foes of lung cancer? -- Chapter 16. Roles of long non-coding RNAs in lung cancer -- Chapter 17. modulator of therapeutic response in non small cell lung carcinoma -- Chapter 18. old story, new modalities!.Part D -- Chapter 19. Oxidative stress and therapeutic development in lung cancer -- Chapter 20. Regulation of oxidative stress by nitric oxide defines lung development and Diseases -- Chapter 21. Epidermal growth factor receptor: promising targets for non-small cell lung cancer -- Chapter 22. Oxygenated lipid products in COPD and asthma: a clinical picture. .

Sommario/riassunto

This is the second volume of the comprehensive, two-volume work on oxidative stress in lung diseases. Adopting a multidisciplinary approach, it demonstrates the cellular and molecular mechanisms associated with ROS (reactive oxygen species)-induced initiation and progression of a variety of lung diseases, such as COPD, emphysema, asthma, cystic fibrosis, occupational pulmonary diseases and pulmonary hypertension and discusses points for therapeutic intervention. The book also covers translational research and the latest research on prevention and therapeutics. Each chapter includes in-depth insights into the mechanisms associated with lung diseases and into identifying targets for drug development. Bridging the gap between fundamental and translational research, and examining applications in the biomedical and pharmaceutical industry, it is a thought-provoking read for basic and applied scientists engaged in biomedical research.
