Record Nr.	UNINA9910409682603321
Titolo	Role of Oxidative Stress in Pathophysiology of Diseases / / edited by Pawan K. Maurya, Kamal Dua
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-1568-9
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (303 pages)
Disciplina	616.39
Soggetti	Oxidative stress Human physiology Cancer research Diabetes Neurosciences Nanotechnology Oxidative Stress Human Physiology Cancer Research Fisiologia patològica Estrès oxidatiu Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Oxidative stress and oral diseases Chapter 2. Role of Oxidative stress in Chronic Liver Diseases Chapter 3. In-vitro and In-vivo Antioxidant activity of nanoparticles Chapter 4. Oxidative stress in neurology and neurodegenerative processes Chapter 5. The role of oxidative stress in respiratory diseases Chapter 6. Role of Synbiotics in alleviating oxidative stress in colorectal cancer Chapter 7. Oxidative Stress and Immunological Complexities in Multi-Drug Resistant Tuberculosis Chapter 8. Infection-induced Oxidative Stress in Chronic Respiratory Diseases Chapter 9. Oxidative stress in neuropsychiatric and neurodegenerative diseases Chapter 10. Oxidative stress monitoring in in vitro and in vivo models Chapter

1.

	11. Effects of Yoga on Aging.
Sommario/riassunto	This book illustrates the importance and significance of oxidative stress in the pathophysiology of various human diseases. The book initially introduces the phenomenon of oxidative stress, basic chemical characteristics of the species involved and summarizes the cellular oxidant and anti-oxidant system and the cellular effects and metabolism of the oxidative stress. In addition, it reviews the current understanding of the potential impact of oxidative stress on telomere shortening, aging, and age-related diseases. It also examines the role of oxidative stress in chronic diseases, including cancer, diabetes, cardiovascular diseases, and neurodegenerative disorders. Further, the book presents novel technologies for the detection of oxidative stress biomarkers using nanostructure biosensors, as well as in vitro and in vivo models to monitor oxidative stress. Lastly, the book addresses the drug delivery carriers that can help in combating oxidative stress.