

1. Record Nr.	UNINA9910444254903321
Titolo	Handbook of Oxidative Stress in Cancer: Mechanistic Aspects [[electronic resource] /] / edited by Sajal Chakraborti, Bimal K Ray, Sushanta Roychowdhury
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-4501-4
Descrizione fisica	1 online resource (X, 1690 p. 20 illus., 10 illus. in color.)
Disciplina	614.5999
Soggetti	Cancer - Research Genetics Cancer Research Genetics and Genomics Estrès oxidatiu Càncer Oxigen actiu Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This comprehensive, up-to-date reference work compiles the scientific research on the relationship between various forms of cancer and reactive oxygen species (ROS). It is well known that ROS play a key role in the various steps leading to malignancy, this includes increase in DNA mutation rates. The book brings together exciting reviews, written by leading experts all over the world. The book is divided into four broad sections. Each section describes the role of oxidative stress and underlying mechanisms and pathways, at various stages of cancer, including its role in carcinogenesis, cancer progression and metastasis. Further, the book describes how the reactive oxygen species (ROS) modulate gene expression and signal transduction pathways in cancer. One section of the book is also dedicated to the therapeutics in ROS-induced cancer. It discusses the ways to interfere with the cancer

progression, and design anti-cancer drugs. The book provides an integrated approach for better understanding of the development phases of oxidative stress-induced cancers, and the current perspectives about therapeutics of cancers. It is a highly resourceful book and would be extremely important to clinicians, students and researchers in the field of cancer genetics, therapeutics and oncology. .

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