1. Record Nr. UNINA9910918596103321

Autore	Jana Kuladip
Titolo	Apoptosis and Human Health: Understanding Mechanistic and Therapeutic Potential / / edited by Kuladip Jana
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819779055 9819779057
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (461 pages)
Collana	Medicine Series
Disciplina	571.936
Soggetti	Cell death Diseases Cytology Cell Death Cell Biology Apoptosi Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Apoptosis: Intricate connections in cell death pathways and disease implications -- Chapter 2: Apoptosis: A Controlled Cell's Fate -- Chapter 3: Apoptosis: Novel insights into the role of death receptors and caspases in cell fate -- Chapter 4: Apoptosis: Mechanisms and Clinical Implications -- Chapter 5: Apoptosis and Mitochondria: Cell death mechanisms -- Chapter 6: Apoptosis: ER stress and Disease pathology -- Chapter 7: Apoptosis: Oxidative stress and Antioxidants -- Chapter 8: Caspase Independent Apoptosis: New Insights and Current Perspectives -- Chapter 9: Role of Apoptosis in Cancer: Therapeutic targets and strategies -- Chapter 10: Mechanisms of PANoptosis and its implications in cancer progression and treatment -- Chapter 11: Role of Apoptosis in Neurodegeneration: Therapeutic targets and strategies.-b Chapter 12: Role of Apoptosis in Diabetes: Therapeutic targets and strategies -- Chapter 13: Role of Apoptosis in Cardiovascular diseases: Therapeutic targets and strategies -- Chapter 14: Chapter 15: Role of Apoptosis in Parasitic infections: Therapeutic

targets and strategies -- Chapter 15: Role of Apoptosis in Viral infections with special reference to Covid 19: Therapeutic targets and strategies -- Chapter 16: Role of Apoptosis in male Infertility: Therapeutic targets and strategies -- Chapter 17: Role of Apoptosis in aging: Therapeutic targets and strategies -- Chapter 18: Apoptosis: Natural product-derived small molecules as Therapeutics -- Chapter 19: Apoptosis-based therapeutics and inhibitors in clinical trials or in preclinical state -- Chapter 20: Apoptosis and cancer immunotherapy: Current mechanisms and emerging strategies.

Sommario/riassunto

This book comprehensively reviews the recent advancements in apoptosis research and evaluates its therapeutic targets and strategies in controlling various human diseases. The initial chapter presents the molecular components that regulate apoptosis and its importance for pathogenic processes. The subsequent chapters discuss the molecular mechanisms and signaling pathways involved in apoptosis induction and inhibition. The book also examines the role of mitochondria-driven apoptosis and therapeutic strategies for targeting mitochondria-mediated cell death. Further, the book discusses the role of apoptosis in different diseases, including neurodegeneration, cancer, diabetes, cardiovascular diseases, parasitic infections, autoimmune diseases, reproductive disorders, and infertility. Towards the end, the book outlines the recent advances in the field of apoptosis-based therapies and explores some highlights of a very active field of drug development. This book is useful for the researchers involved in designing and developing new drugs and drug targets for the treatment of different human diseases.