

1. Record Nr.	UNINA9910855388203321
Titolo	Drug Resistance in Cancer: Mechanisms and Strategies // edited by Sameer Ullah Khan, Fayaz Malik
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-9716-66-7
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (0 pages)
Disciplina	616.994061
Soggetti	Cancer Cancer - Treatment Cancer Biology Cancer Microenvironment Cancer Therapy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Introduction to Drug Resistance in Cancer -- 2. Mechanisms of Cancer Resistance to Various Therapies -- 3. Role of cancer Stem Cells in Drug Resistance -- 4. Immune cells - Critical players in Drug Resistance -- 5. Tumor Microenvironment: Multiway Role in Drug Resistance -- 6. Cancer Drug Resistance and Metabolic Reprogramming -- 7. Epigenetic alterations as an adaptive response to chemotherapy -- 8. Autophagy plays a dual role in drug resistance -- 9. Intracellular compartments and drug resistance -- 10. Gut microbes: Role in cancer and cancer drug resistance -- 11. Novel strategies for overcoming drug resistance -- 12. Future directions and challenges in overcoming drug resistance in cancer.
Sommario/riassunto	This book tries to emphasize the mechanisms associated with the resistance towards various anti-cancer therapies The focus has been given to the role of cancer stem cells, immune cells, and the multiway impact of tumor microenvironment in drug resistance. The book delves into the role of epigenetic alterations, autophagy, intracellular compartments, and the impact of gut microbiome on therapeutic resistance. Each chapter of the book has elaborated on these aspects that are exclusively or mutually driving the therapeutic non-

responsiveness towards various current clinical candidates. In addition to that the book has also discussed novel strategies to overcome the therapeutic challenge by employing Combinatorial therapies that can prove to be useful and effective. Overall the book reflects on the current treatment challenges, futuristic strategies and new research initiatives that explore novel treatment options.

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