

1. Record Nr.	UNINA9910988284803321
Titolo	Hypoxia and Tumor Microenvironment : Implications for Cancer Therapy // edited by Sukhes Mukherjee, Jagat Rakesh Kanwar
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9610-16-8
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (XIV, 236 p. 45 illus. in color.)
Disciplina	571.978 616.994
Soggetti	Cancer Cancer - Treatment Tumors - Immunological aspects Tumor Microenvironment Neoplasms - therapy Tumor Hypoxia Cancers Cancer Therapy Cancer Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Chapter 1: Tumor Hypoxia An Introduction -- Chapter 2: Hypoxia and tumor immunity -- Chapter 3: Incipient Role of Non coding RNAs in different types of cancer hypoxia -- Chapter 4: Hypoxia induced DNA damage response and genomic instability dictate cancer treatment response -- Chapter 5: Metabolic regulation of CAR T cell function by hypoxic tumor -- Chapter 6: Emerging roles of non coding RNAs in tumor hypoxia -- Chapter 7: Regulation of Angiogenesis by Cancer Hypoxia and Role of Hypoxia Inducible Factors with Therapeutic Paradigm -- Chapter 8: Hypoxia and Regulation of Cancer Cell Stemness -- Chapter 9: Hypoxia-Inducible Factors: Regulation and Therapeutic Potential in Cancer: Artificial Intelligence in Precision Medicine -- Chapter 10: Strategic application of bio reductive metalloprodrugs for cancer cell-selective anticancer therapy --

## Chapter 11: Hypoxia Inducible Factors Regulation and Therapeutic Potential.

### Sommario/riassunto

This book provides a comprehensive overview of the hypoxic tumor microenvironment and its impact on various aspects of cancer biology, including DNA damage response, genome instability, tumor immunity, non-coding RNA regulation, metabolic regulation of CAR-T cell function, and angiogenesis. It explores the regulation and therapeutic potential of hypoxia-inducible factors, as well as strategies to improve cancer immunotherapy by targeting the hypoxic tumor microenvironment. This book is a valuable resource for students, researchers, and Medical science professionals interested in understanding the complex interplay between hypoxia and cancer biology.