

1. Record Nr.	UNINA9910495198003321
Titolo	Obesity and Cancer / / edited by Shashank Kumar, Sanjay Gupta
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021
ISBN	981-16-1846-1
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (363 pages)
Collana	Biomedical and Life Sciences Series
Disciplina	616.994071
Soggetti	Cancer Diseases Immunology Bioinformatics Cancer Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Obesity induced chronic low-level inflammation and cancers -- Chapter 2. Adipose tissue produced estrogen as risk factor for cancers -- Chapter 3. Insulin and Insulin-like growth factor-1 associated cancers.-Chapter 4. Adipokines play important role in cell proliferation and antiproliferation -- Chapter 5. mTOR and AMP-activated protein kinase in obesity and cancer -- Chapter 6. Immune response and oxidative stress in obesity induced cancer -- Chapter 7. Role of gene polymorphism in obesity and cancer -- Chapter 8. Therapeutic role of green tea in obesity and cancer -- Chapter 9. Effect of dietary phytochemicals in obesity and cancer -- Chapter 10. Resveratrol as anti-obesity and anticancer agent -- Chapter 11. EGCG as anti-obesity and anticancer agent -- Chapter 12. miRNAs as therapeutic target in obesity and cancer -- Chapter 13. In silico updates on lead identification for obesity and cancer -- Chapter 14. In vivo models for obesity and obesity related carcinogenesis -- Chapter 15. Estrogen signaling based current and potential therapies against obesity and related diseases -- Chapter 16. Autophagy at the crossroad of obesity mediated cancer progression.
Sommario/riassunto	This book highlights the concordance between signaling pathways that are involved in obesity and cancer cross-talks. It describes the role of

cytokines, chemokines, growth factors, insulin, and adipokines in the development of obesity-associated cancers. The book reviews the role of inflammatory signaling pathways such as estrogen-mediated signaling, mTOR and AMP-activated protein kinase pathway and the involvement of adaptive and innate immunity, oxidative stress, gene polymorphism, dietary phytochemicals, and miRNAs in obesity and cancer. In addition, it covers the latest research on the drugs and natural therapeutic agents that target obesity-induced cancers and discusses various *in vivo* models for studying obesity and obesity-associated cancer. Lastly, it analyses the role of genetic polymorphisms in the obesity-related genes that influence cancer development. The book is a useful resource for researchers in the field of cancer, pharmacology, food chemistry, and clinical biochemistry. .
