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Nota di contenuto	Intro -- ESTROGEN PREVENTION FOR BREAST CANCER -- ESTROGEN PREVENTION FOR BREAST CANCER -- Library of Congress Cataloging-in-Publication Data -- Contents -- Preface -- Acknowledgements -- Chapter I: Discovery of Estrogen Deficiency as Common Cancer Risk Factor for Highly and Moderately Estrogen Dependent Organs -- Abstract -- Introduction -- Risk Factors for Cancers of Highly Hormone Related Organs -- Controversial Associations of Hormone Replacement Therapy and Cancer Risk -- Shortcomings of Studies on the Correlations between HRT Use and Cancer Risk -- Estrogen Deficiency and Cancer Risk in Postmenopausal Women -- Moderate Estrogen Deficiency and Cancer Risk in Premenopausal Women -- Conspicuous Differences between Cancer Epidemiology of Highly and Moderately Estrogen Dependent Organs -- Extraovarian Estrogen Synthesis -- Estrogen Deficiency in Men -- Conclusion -- References -- Chapter II: Interaction between Insulin and Estrogen in the Regulation of Cell Proliferation and Carcinogenesis -- Abstract -- Introduction -- Correlations between Insulin Resistance and Cancer Risk -- Historical Review of Associations between Estrogen and Cancer Development -- Molecular Mechanism of Interplay between the Actions of Estrogen and Insulin -- Clinical Correlations between Estrogen Deficiency, Insulin Resistance and Cancer Risk -- Conclusion -- References -- Chapter III: Dose Dependent Biphasic Effect of Alcohol on Estrogen Level and

Cancer Risk -- Abstract -- Introduction -- Ambiguous Biphasic Metabolic and Hormonal Effects of Moderate and Excessive Alcohol Consumption -- Associations of Alcohol Consumption, Estrogen Level and Breast Cancer Risk -- Alcohol Consumption, Hormonal Changes and Risk for Oral Cancer -- Conclusion -- References -- Chapter IV: Estrogen Level May Be Protective for Breast Cancer in Obese Women -- Abstract -- Introduction.

Grade and Distribution of Fat Deposition and Breast Cancer Risk -- Age-Related Role of Obesity in the Prediction of Breast Cancer Risk -- Effects of Reproductive Data and Menstrual Factors on Obesity-Associated Breast Cancer Risk -- Effects of Exogenous Hormone Treatment on Breast Cancer Risk -- Obesity Related Metabolic and Hormonal Disorders as Mediators of Breast Cancer Risk -- Counteraction between Obesity Associated Insulin Resistance and Protective Circulatory Estrogen Level -- Conclusion -- References -- Chapter V: Newly Recognized Player in Breast Cancer Risk: Light Deficiency -- Abstract -- Introduction -- Differences in Breast Cancer Incidence and Mortality between African-American and White American Women -- Excessive Cancer Risk of African-Americans and Dark Skinned Immigrants in Northern Geographic Regions -- Traditional Concept Concerning the Oncostatic Capacity of Melatonin Hormone -- Correlations between Excessive Melatonin Level, Other Endocrine Functions and Cancer Risk -- Correlations among Light Exposure, Melatonin Level and Breast Cancer Risk -- Conclusion -- References -- Chapter VI: Estrogen Prevention of Breast Cancer: A Critical Review -- Abstract -- Background: Randomized HRT WHI Trials -- Critique of the WHI HRT Trial Reporting -- Estrogen and the Rates of Invasive Breast Cancer -- Estrogen Benefit in Human Breast Cancer - Clinical Stage IV Breast Cancer -- Estrogen Benefit in Breast Cancer: Basic Research Data and Mechanism of Action -- Estrogen in Prevention of Breast Cancer? The Final 2000 - 2012 Reports -- Conclusion -- References -- Chapter VII: Failures and Controversies of the Antiestrogen Treatment of Breast Cancer -- Abstract -- Introduction -- Molecular Mechanisms of Estrogen Action -- Estrogen Receptors and Their Actions. Interplay between Alpha and Beta Estrogen Receptor Isoforms in the Regulation of Cell Proliferation and of Apoptotic Cell Death -- Cross Talk between Receptor Signals of Estrogen and Growth Factors -- Estrogen Receptors and Human Cancers -- Estrogen Synthesis in Tumors -- Antiestrogen and Estrogen in Cancer Therapy -- Conclusion -- References -- Chapter VIII: Evolution of Estrogen Action in Breast Cancer: From Culprit to Killer -- Abstract -- Introduction -- Evolution of Fashions in Breast Cancer Treatment and Prevention -- Selective ER Modulation: Translation from the Laboratory to Clinical Practice -- A Roadmap to Use SERMS to Prevent Multiple Diseases in Women -- Raloxifene in Clinical Practice -- Summary of SERMs -- The Evolution of Acquired Resistance to Antihormonal Therapies -- Molecular Mechanisms of the Apoptotic Action of Estrogens -- Clinical Significance of Estrogen Induced Apoptosis -- Conclusion -- Acknowledgments -- References -- Index.

Sommario/riassunto

From the early 80s of the past century, clinical and epidemiological studies have increasingly pointed to an elevated breast, endometrial and ovarian cancer risk from high circulating estrogen levels. Estrogen deficiency as a cancer risk factor emerged first in 2007 in a study on Hungarian oral cancer cases based on the gender and age- related differences in tumor prevalence. Critical reevaluation of the contradictory results of hormone replacement therapy yielded a complete conversion that estrogen deficiency may confer cancer initiation. This book examines the deleterious interactions between

estrogen deficiency and further hormonal disorders which illuminate the apparently controversial associations of obesity, light exposure and alcohol intake with breast cancer risk.
