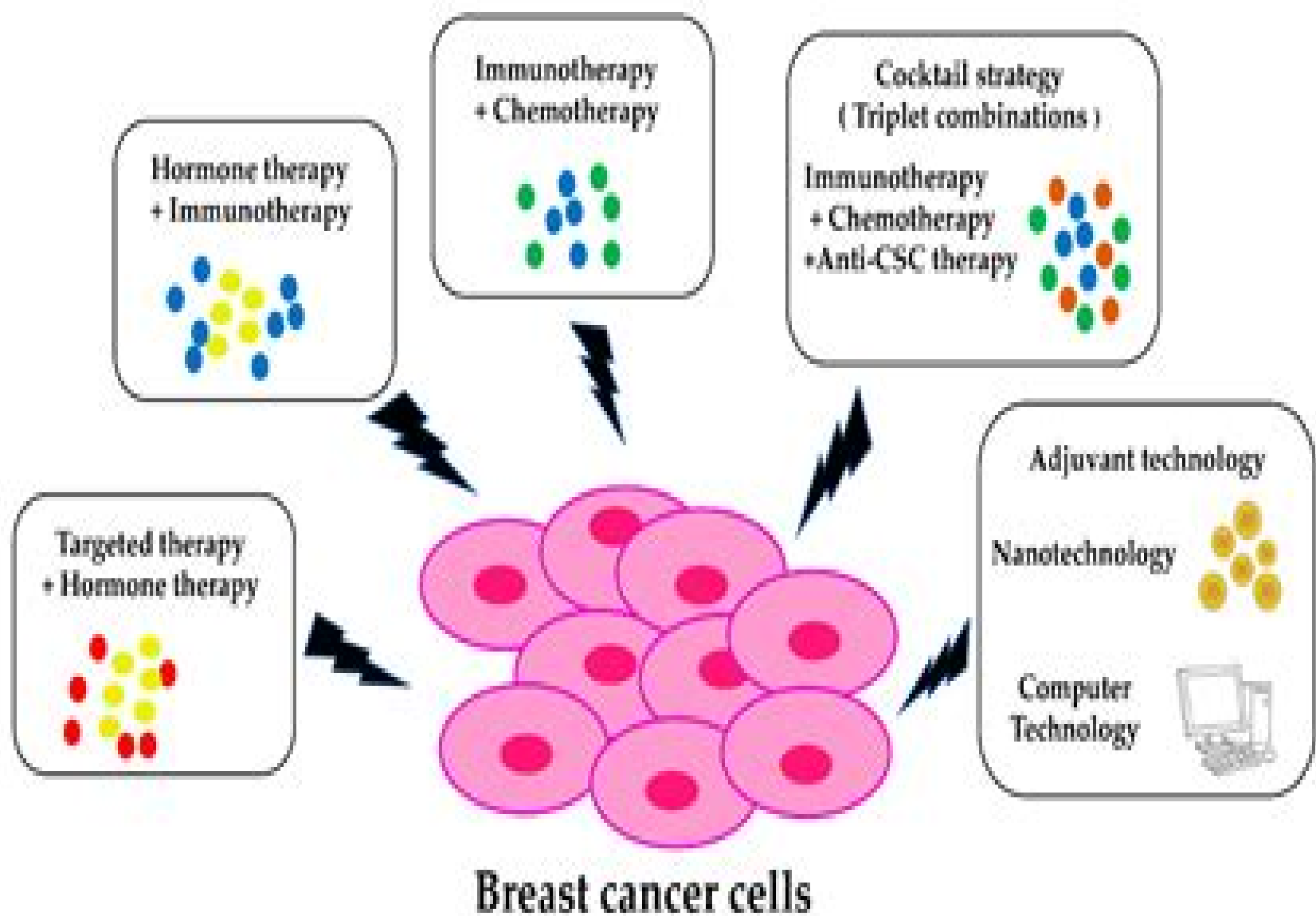




Breast Cancer Therapy Resistance Springerbriefs

Puja Mehta



Breast Cancer Therapy Resistance Springerbriefs:

Breast Cancer Stem Cells & Therapy Resistance Phuc Van Pham, 2015-11-26 This volume thoroughly examines breast cancer stem cells BCSCs from basic definitions to techniques for identifying isolating culturing and targeting BCSCs for therapy there is additional focus on pre clinical and clinical results The text begins with a discussion of breast cancer focusing especially on the limitations of current therapies in its treatment The subsequent chapters introduce and compare stem cells and cancer stem cells describe properties and isolation techniques of BCSCs and examine BCSC targeting approaches The text concludes with a discussion of controversy surrounding the BCSC hypothesis and of future research directions Breast Cancer Stem Cells Therapy Resistance part of the SpringerBriefs in Stem Cells series provides a succinct yet comprehensive overview of BCSCs for advanced students graduate students and researchers as well as those working with breast cancer or stem cells in a clinical setting

Nanoparticles in Cancer Therapy Neelam Thakur, Bhukya Prudhvi Lal, 2024-11-08 This book presents the role of nanoparticles in cancer therapy emphasizing their innovative applications across treatment diagnosis and the development of therapeutic strategies The first section of the book describes the applications of nanoparticles in cancer vaccines and gene therapy It features discussions on polymeric nanoparticles as nanovaccine carriers membrane based nano vaccines for immunotherapy and gene therapy techniques employing nanoparticles The second section presents advanced nanomedicine approaches specifying the role of chemodynamic nanoparticles in cancer theranostics the application of low dimensional nanomaterials and emerging strategies against drug resistance Additionally it explores nanotechnology in radiation therapy phototherapy modalities and bioengineered virus like nanoparticles for diagnostics and therapeutics The last section reviews the clinical applications and prospects examining theranostic nanoparticles the clinical translation of nanomedicine and the current limitations of cancer nanotherapy It also addresses future directions in nanoparticle application and examines the genotoxicity immunotoxicity cytotoxicity assessments safety profiles targeted drug delivery and their role in viral oncogenesis This book is a useful resource for researchers clinicians and students in the fields of oncology and nanotechnology

miRNAs and Target Genes in Breast Cancer Metastasis Seema Sethi, 2014-10-13 This SpringerBrief gives the latest research on the role of miRNAs in breast cancer metastasis MicroRNAs miRNAs are recently described small endogenous noncoding RNAs implicated in the posttranscriptional control of gene expression These tiny molecules are involved in developmental physiologic phenomenon as well as pathologic processes including cancers In fact miRNAs have emerged as critical regulators of cancer progression invasion and metastasis This is mainly because a single miRNA can affect several downstream genes and signaling pathways with oncogenic or tumor suppressor actions depending on the target genes affected Due to this multimodal downstream signaling effects these small endogenous molecules hold great promise in metastasis prevention and treatment Modulating the activity of miRNAs can provide opportunities for novel cancer interventions Targeting miRNAs could become a novel

prognostic and therapeutic strategy to prevent the future development of metastasis Thus miRNAs could also serve as a potential targets for anti metastatic therapy The book explores how the expression of miRNAs in the primary tumor could be silenced using antagomirs chemically modified anti miRNA oligonucleotides which could prevent the development of metastasis whereas once metastasis develops then it could be treated with miRNA mimics for inducing its expression for the treatment Therefore development of miRNA based prophylactic therapies could serve as precision and personalized medicine against future development of metastasis of breast and other cancers

Overcoming Breast Cancer Therapy Resistance

Zodwa Dlamini,2024-06-03 This book addresses the pressing problem of drug resistance in the treatment of breast cancer It provides a comprehensive understanding of the complex mechanisms underlying drug resistance and presents the latest advances in therapeutic approaches to overcome this enormous challenge The book begins with an introduction to the biology of breast cancer treatment modalities and the mechanisms of drug resistance This includes the principles of drug resistance in targeted immune endocrine and chemotherapy In the following sections the authors present innovative strategies to overcome drug resistance and new research directions among others the role of the microbiome in drug resistance molecular profiling of patients for personalized medical care and new drug delivery systems Finally the book concludes with a discussion of the differences in the prevalence and treatment success of breast cancer between high and low income countries This book is an informative resource for students researchers and clinicians in the field of breast cancer research and oncology in general

Resistance to Targeted Therapies in Breast Cancer Jenifer R.

Prosperi,2017-12-04 We present an in depth description of resistance to targeted therapies in breast cancer Targeted therapies discussed here include those used to treat ER or Her2 breast cancers i e Tamoxifen or trastuzumab or those targeting signaling pathways aberrantly activated in triple negative breast cancer i e EGFR and Wnt signaling We have also provided an overview of standard of care as an introduction into the importance of targeted therapy It is our hope that this volume gives an insight into the landscape of breast cancer treatment the challenges of targeted therapy and a glimpse into the future of breast cancer therapy

Breast Cancer Chemosensitivity Dihua Yu,Mien-Chie Hung,2009-12-30 In Breast Cancer Chemosensitivity a group of world leading experts review critical aspects of resistance to systemic therapy in breast cancer patients Beginning with a clinical overview of the problem Breast Cancer Chemosensitivity moves on to focus on the latest findings of molecular mechanisms of drug resistance These include in depth discussions on multidrug resistance by P glycoprotein and the multidrug resistance protein family resistance to therapeutic agent induced apoptosis cell cycle deregulation deregulation of DNA repair loss of tumor suppressor genes integrin mediated adhesion insulin like growth factors epidermal growth factor and ErbB2 in modulating breast cancer response to systemic therapy especially certain chemotherapeutic agents Breast Cancer Chemosensitivity provides an example of using novel approaches for chemosensitization of breast cancer cells that gives readers an idea about the future direction in breast cancer treatment

Breast Cancer Metastasis and Drug Resistance Aamir Ahmad, 2019-08-27 Resistance to therapies both targeted and systemic and metastases to distant organs are the underlying causes of breast cancer associated mortality. The second edition of *Breast Cancer Metastasis and Drug Resistance* brings together some of the leading experts to comprehensively understand breast cancer, the factors that make it lethal, and current research and clinical progress. This volume covers the following core topics: basic understanding of breast cancer statistics, epidemiology, racial disparity, and heterogeneity; metastasis and drug resistance; bone metastasis; trastuzumab resistance; tamoxifen resistance; and novel therapeutic targets including non-coding RNAs, inflammatory cytokines, cancer stem cells, ubiquitin ligases, tumor microenvironment, and signaling pathways such as TRAIL, JAK, STAT, and mTOR, and recent developments in the field. Epigenetic regulation, microRNAs-mediated regulation, novel therapies, and the clinically relevant 3D models. Experts also discuss the advances in laboratory research along with their translational and clinical implications with an overarching goal to improve the diagnosis and prognosis, particularly that of breast cancer patients with advanced disease.

Comparative Empirical Bioethics: Dilemmas of Genetic Testing and Euthanasia in Israel and Germany Aviad E. Raz, Silke Schicktanz, 2016-04-29 This book is a comprehensive empirically grounded exploration of the relationship between bioethics, culture, and the perspective of being affected. It provides a new outlook on how complex bioethical issues become questions of everyday life. The authors focus on two contexts: genetic testing and end-of-life care. To locate and demonstrate emerging themes of responsibility, such as self-responsibility, responsibility for kin, and the responsibility of society. Within these themes, the duty to know versus the right not to know, one's genetic fate in the context of genetic testing, or the sanctity of life versus self-determination in the context of end-of-life care are identified as culturally embedded dilemmas that are very much relevant for lay persons. Furthermore, cultural factors such as religion, history, utopian and dystopian views of biomedical technologies, outlooks on the body and on health, illness, and citizenship are examined. Health issues are increasingly becoming a question of assessing risk and responsibility. How can we better prepare ourselves for the future? We all make such assessments in a way that combines personal inclinations, professional recommendations, and cultural framings. There is still much to be learned about the interplay between these three dimensions.

Nano- and Microscale Drug Delivery Systems Alexandru Mihai Grumezescu, 2017-03-27 *Nano and Microscale Drug Delivery Systems: Design and Fabrication* presents the developments that have taken place in recent years in the field of micro and nanoscale drug delivery systems. Particular attention is assigned to the fabrication and design of drug delivery systems in order to: i) reduce the side effects of therapeutic agents; ii) increase their pharmacological effect; and iii) improve aqueous solubility and chemical stability of different therapeutic agents. This book is designed to offer a cogent, concise overview of current scholarship in this important area of research through its focus on the characterization and fabrication of a variety of nanomaterials for drug delivery applications. It is an invaluable reference source for both biomaterials scientists and biomedical engineers who want to learn more about how nanomaterials are engineered and used.

in the design of drug delivery nanosystems Shows how micro and nanomaterials can be engineered to create more effective drug delivery systems Summarizes current nanotechnology research in the field of drug delivery systems Explores the pros and cons of using particular nanomaterials as therapeutic agents Serves as a valuable reference for both biomaterials scientists and biomedical engineers who want to learn more about how nanomaterials are engineered and used in the design of drug delivery nanosystems *A Guide to Breast Cancer Research* Therese Sørli,Robert B. Clarke,2025-01-16 The book presents key topics at the forefront in breast development and cancer research in chapters authored by leading scientists in the field The chapters provide a basis for understanding major concepts model systems cells of origin and heterogeneity in human breast development and cancer The book builds on this understanding to guide readers through the cellular and molecular basis of breast cancer and the most important signaling pathways Finally the book describes mechanisms of metastasis and cancer immunity and treatment options and resistance to therapy It is targeted at young scientists and early career researchers and provides an overview of current topics in breast cancer research Each chapter includes key learning points boxes and conclusions to highlight the most important information This book will interest anyone who wants to learn about the main areas of breast cancer research and the most important recent advances

Unveiling the Magic of Words: A Overview of "**Breast Cancer Therapy Resistance Springerbriefs**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Breast Cancer Therapy Resistance Springerbriefs**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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