

Marine Compounds And Cancer

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Different compounds

How we work

Mechanism

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Ocean Sediments

Marine Microbes: A New Resource For Drug Discovery

Traditional Natural Product Discovery Paradigm

Success Stories Two microbial products have entered human clinical trials for the treatment of cancer

Success Stories Compounds in clinical trials

New Approaches to NP Discovery: Genomics

Genome Mining (one strain)

Metabolomics (GNPS)

Pattern-Based Genome Mining

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Acid mine drainage phenomenon and analysis of microbial phyla

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Cancer Incidence and Survival Among Children and Adolescents

This volume covers the mechanisms of pRb inactivation detailing repressive mechanisms commonly associated to cancer, and representative of the experimentally relevant tests used in the establishment of cancer diagnosis and prognosis. Chapters contain protocols and in-depth discussions for commonly used experimental approaches to assess the status and function of components of the pRb pathway, including pRb itself, in cell lines and biological samples. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, The Retinoblastoma Protein aims to serve as a guide to assist molecular cancer biologists in their search for understanding of the molecular functions of this preeminent tumor suppressor.

The Retinoblastoma Protein

In the past decade, we have experienced an explosion of new information about cancer therapeutic targets. Many of the targets have been validated by the discovery and approval of new medicines which have been approved for the treatment of cancer. On the heels of these successes, innumerable new targets and new potential therapeutics are being developed by many different groups including government agencies, pharmaceutical companies, biotechnology companies, academic institutions, and individual investigators. Understanding the expanding "universe" of cancer therapies is therefore becoming impossible and no single source exists which serves as a reference for the involved parties. Further, the interested parties have vastly different areas of expertise, from focused laboratory based science, to clinical research, to corporate and regulatory oversight. The text would be updated every two years, more often depending on pace of change, interest and sales. While useful online, this reference book would likely be kept in hard copy as well.

Cancer Therapeutic Targets

This book is a state-of-the-art summary of the latest achievements in cell cycle control research with an outlook on the effect of these findings on cancer research. The chapters are written by internationally leading experts in the field. They provide an updated view on how the cell cycle is regulated in vivo, and about the involvement of cell cycle regulators in cancer.

Cell Cycle Regulation

From pathology to treatment, MicroRNAs in Diseases and Disorders highlights the role of microRNAs (miRNAs) in the development and progression of a variety of diseases, including cancer, neurological disease, endocrine disease and autoimmune disease, and underscores the utilization of miRNA targets in the treatment of these conditions. Providing a comprehensive account, this book also includes the identification of miRNAs as diagnostic and prognostic biomarkers for disease, as well as evaluates translational value from clinical trials using synthesized and functionalized miRNA mimics and inhibitors. With a global contribution list and chapters from leading experts across the field, MicroRNAs in Diseases and Disorders is an invaluable reference to miRNA researchers and health professionals in a variety of disease areas in government, academia and industry. The book will also appeal to pharmaceutical and medicinal chemists with an interest in miRNA targeting therapeutics, as well as to advanced students in chemical biology and drug discovery.

MicroRNAs in Diseases and Disorders: Emerging Therapeutic Targets

This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

How Tobacco Smoke Causes Disease

Introducing the first volume of a new series, *Cancer: Principles & Practice of Oncology—Annual Advances in Oncology*. This series of annual volumes will focus on the most significant changes in oncologic research and practice that have taken place during the preceding year. Each volume identifies scientific and clinical areas in oncology that are rapidly changing and show a high potential for affecting the management of cancer patients in the future. These areas may reflect current controversies in oncology and every effort is made to provide clear direction for the practicing oncologist.

Cancer

The rapidly changing concepts in radiation oncology with the development of more precise instrumentation for delivery of radiation therapy and a greater emphasis on hypofractionation technologies require a very intimate knowledge of tumor biology and the influence of various biologic factors on dose distribution within the tumor in terms of homogeneity as well as prevention of any late effects on normal tissue surrounding the tumor itself. Not only are these major factors in clinical practice but also the known factors of inhomogeneity of cancer cells, the impact of microenvironment in terms of radiation effect, and host factors make it mandatory to design therapeutic strategies to improve the outcome and to diminish any potential short-term or long-term risks from the radiation therapy. The authors have developed an outstanding text that deals with these strategies and how they would impact on established and emerging new technologies and treatment. The context of the presentations within a multidisciplinary combined modality therapy program is incredibly important. In this volume, various topics are reviewed including tumor genesis, cell proliferation, angiogenesis, the physiologic characteristics of malignant tissues, invasion and adhesion, the route and role pursued in the development of metastasis, and the role of the human immune system in cancer prevention and development.

The Impact of Tumor Biology on Cancer Treatment and Multidisciplinary Strategies

This volume presents the proceedings of the 7th International Conference on the Development of Biomedical Engineering in Vietnam which was held from June 27-29, 2018 in Ho Chi Minh City. The volume reflects the progress of Biomedical Engineering and discusses problems and solutions. It aims to identify new challenges, and shaping future directions for research in biomedical engineering fields including medical instrumentation, bioinformatics, biomechanics, medical imaging, drug delivery therapy, regenerative medicine and entrepreneurship in medical devices.

Emerging Molecular Mechanisms of Cell Cycle Regulation in Cancer: Functions and Potential Applications

A FRESH EXAMINATION OF PRECISION MEDICINE'S INCREASINGLY PROMINENT ROLE IN THE FIELD OF ONCOLOGY Precision medicine takes into account each patient's specific characteristics and requirements to arrive at treatment plans that are optimized towards the best possible outcome. As the field of oncology continues to advance, this tailored approach is becoming more and more prevalent, channelling data on genomics, proteomics, metabolomics and other areas into new and innovative methods of practice. Precision Medicine in Oncology draws together the essential research driving the field forward, providing oncology clinicians and trainees alike with an illuminating overview of the technology and thinking behind the breakthroughs currently being made. Topics covered include: Biologically-guided radiation therapy Informatics for precision medicine Molecular imaging Biomarkers for treatment assessment Big data Nanoplatfroms Casting a spotlight on this emerging knowledge base and its impact upon the management of tumors, Precision Medicine in Oncology opens up new possibilities and ways of working – not only for oncologists, but also for molecular biologists, radiologists, medical geneticists, and others.

Chemosensitizing Effect of Natural Products against Cancers: Applications in Enhancing Chemotherapy and Immunotherapy

This textbook provides current information on best practice in multidisciplinary cancer care. Divided into six sections, the contributors look at the aetiology of cancer, patient care, population health and the management of specific types of disease. Written and edited by internationally recognised leaders in the field, the new edition of the Oxford Textbook of Oncology has been fully revised and updated, taking into consideration the advancements in each of the major therapeutic areas, and representing the multidisciplinary management of cancer. Structured in six sections, the book provides an accessible scientific basis to the key topics of oncology, examining how cancer cells grow and function, as well as discussing the aetiology of cancer, and the general principles governing modern approaches to oncology treatment. The book examines the challenges presented by the treatment of cancer on a larger scale within population groups, and the importance of recognising and supporting the needs of individual patients, both during and after treatment. A series of disease-oriented, case-based chapters, ranging from acute leukaemia to colon cancer, highlight the various approaches available for managing the cancer patient, including the translational application of cancer science in order to personalise treatment. The advice imparted in these cases has relevance worldwide, and reflects a modern approach to cancer care. The Oxford Textbook of Oncology provides a comprehensive account of the multiple aspects of best practice in the discipline, making it an indispensable resource for oncologists of all grades and subspecialty interests. Review: Each chapter is nicely illustrated with schemes, cartoons and images. The text, although written by top oncologists, is readily understandable for a non-expert. Thus, the textbook will no doubt be appreciated by a broader audience. * Recent Patents on Anti-Cancer Drug Discovery Vol. 11 Issue No. 4, Alexander Shtil * I recommend this book highly to all oncology and oncologists in training as a thorough, informative, and readable reference. Every large intuitional library and every oncology library should have it. * NEJM, 2002 * This comprehensive textbook of oncology is the first new major textbook on cancer to appear in a decade and is designed for a broad audience of clinicians, oncologists in training, and academics. The coverage is comprehensive...The overall appearance of the book is outstanding. It is a welcome combination of epidemiology, aspects of basic science, pharmacology and radiation therapy that trainees will fine a nice change...should enjoy a wide readership...because of its appealing design and comprehensive approach to oncology. It is the most user-friendly comprehensive text currently available. The pathology, basic science, epidemiology, and radiation therapy sections are all presented with extreme clarity. * Doody's Journal , 2002 * A landmark reference...It sets new standards for publishing in oncology offering a ground-breaking innovative approach to the filed combined with the quality, accuracy , and intellectual rigour you have come to expect from the world's most prestigious reference publisher. * Biomedicine and Pharmacotherapy, 2002 * Under new editorship, the second edition is far more than an updated version of the first...the prose in the Oxford Textbook is exemplary...this textbook is unique among its peers in giving the sense that the authors are addressing the reader personally...an exception level of quality...Respect for the evidence-based medicine is apparent throughout the text...illustrative and anatomical drawing...of remarkable high quality...excellent discussion of doctor-patient communication in relation OT genetic counselling, psychological issues, and terminal cancers. * JAMA, Volume 287, Issue 24, 2002 * The Oxford Textbook of Oncology covers virtually the entire spectrum of malignant diseases in adults

and children. It meets very high editorial and production standards: the organization, illustrations, and eye-pleasing typography are outstanding... I have high praise for this textbook. * NEJM, Volume 347, Number 2, 2002 * Review from previous edition The Oxford Textbook of Oncology is a classic and fresh approach to the field. It is a must for all libraries and all those who like to have a single up-to-date reference book that contains sufficient detail for the clinician in all subspecialties: surgery and chapters are sufficiently details to provide a reference for trainees in the field. * Oncology, Volume 63, 2002 * The Oxford Textbook of Oncology is what it is meant to be: a textbook with comprehensive information of the actual status of oncology... an indispensable and attractive source of information. * Professor Jaak Ph. Janssens, European Journal of Cancer Prevention * This volume provides a comprehensive account of the multiple aspects of best practice in the discipline, making it an indispensable resource for oncologists of all grades and subspecialty interests. * Anticancer Research Vol. 36 (2016) * An outstanding gift to the international scientific community... The new textbook is an excellent demonstration of this multifaceted and astonishingly variable problem, as well as of the latest achievements in its understanding and practical management. * Alexander A. Shtil, Recent Patents on Anticancer Drug Discovery * I would recommend anyone considering buying an oncology textbook, and particularly those who work in oncology support services, to consider this textbook as it is well set out, easy to read, easy to comprehend, and covers all of the important aspects of modern day oncology. * Dr Andrew Davies, Consultant in Palliative Medicine, Royal Surrey County Hospital; Review for Supportive Care in Cancer *

7th International Conference on the Development of Biomedical Engineering in Vietnam (BME7)

Tyrosine Kinase Inhibitors as Sensitizing Agents for Chemotherapy, the fourth volume in the Cancer Sensitizing Agents for Chemotherapy Series, focuses on strategic combination therapies that involve a variety of tyrosine kinase inhibitors working together to overcome multi-drug resistance in cancer cells. The book discusses several tyrosine kinase inhibitors that have been used as sensitizing agents, such as EGFR, BCR-ABL, ALK and BRAF. In each chapter, readers will find comprehensive knowledge on the inhibitor and its action, including its biochemical, genetic, and molecular mechanisms' emphases. This book is a valuable source for oncologists, cancer researchers and those interested in applying new sensitizing agents to their research in clinical practice and in trials. Summarizes the sensitizing role of some tyrosine kinase inhibitors in existing research Brings recent findings in several cancer types, both experimental and clinically, with a particular emphases on underlying biochemical, genetic, and molecular mechanisms Provides an updated and comprehensive knowledge regarding the field of combinational cancer treatment

Precision Medicine in Oncology

This volume presents a comprehensive collection of methods that have been instrumental to the current understanding of bacterial persisters. Chapters in the book cover topics ranging from general methods for measuring persister levels in Escherichia coli cultures, protocols for the determination of the persister subpopulation in Candida albicans, quantitative measurements of Type I and Type II persisters using ScanLag, to in vitro and in vivo models for the study of the intracellular activity of antibiotics. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Bacterial Persistence: Methods and Protocols brings together the most respected researchers in bacterial persistence whose studies will remain vital to understanding this field for many years to come.

Oxford Textbook of Oncology

A complete introduction and guide to the latest developments in cancer gene therapy-from bench to bedside. The authors comprehensively review the anticancer genes and gene delivery methods currently available for cancer gene therapy, including the transfer of genetic material into the cancer cells, stimulation of the immune system to recognize and eliminate cancer cells, and the targeting of the nonmalignant stromal cells that support their growth. They also thoroughly examine the advantages and limitations of the different therapies and detail strategies to overcome obstacles to their clinical implementation. Topics of special interest include vector-targeting techniques, the lessons learned to date from clinical trials of cancer gene therapy, and the regulatory guidelines for future trials.

Noninvasive techniques to monitor the extent of gene transfer and disease regression during the course of treatment are also discussed.

Protein Kinase Inhibitors as Sensitizing Agents for Chemotherapy

Genetic alterations in cancer, in addition to being the fundamental drivers of tumorigenesis, can give rise to a variety of metabolic adaptations that allow cancer cells to survive and proliferate in diverse tumor microenvironments. This metabolic flexibility is different from normal cellular metabolic processes and leads to heterogeneity in cancer metabolism within the same cancer type or even within the same tumor. In this book, we delve into the complexity and diversity of cancer metabolism, and highlight how understanding the heterogeneity of cancer metabolism is fundamental to the development of effective metabolism-based therapeutic strategies. Deciphering how cancer cells utilize various nutrient resources will enable clinicians and researchers to pair specific chemotherapeutic agents with patients who are most likely to respond with positive outcomes, allowing for more cost-effective and personalized cancer therapeutic strategies.

Cancer Research

The development of intracranial metastatic disease (IMD) complicates the course of 20% of patients with cancer. Despite improvements in patient survival with more aggressive treatment options as compared to the prior standard of palliative whole brain radiation, outcomes for patients who develop IMD remain dispiriting. There is need to celebrate our advances; but a major collaborative multidisciplinary effort is needed to push the field to achieve more meaningful survival benefits for our patients with IMD. In this Research Topic collection, we have assembled work detailing the latest innovations in brain metastases imaging and management, spanning from minimally invasive surgery to immunotherapy. We hope that you find it a valuable resource.

Inhibitors of CDK family: New Perspective and Rationale for Drug Combination in Preclinical Model of Solid Tumors

Aromatase Inhibitors (AIs) treat postmenopausal estrogen receptor positive tumours, which constitute the majority of breast cancer patients. This comprehensive volume brings together the current knowledge from different relevant areas, including molecular mechanisms and translational aspects of drug resistance in AIs. Topics covered include research, experimental, and clinical data specifically focused on AI resistance in breast cancer. The volume will include three sections. The first section covers general knowledge about aromatase inhibitors, including regulation of aromatase genes, and structure and function of aromatase protein. The second section provides the detailed mechanisms of resistance to AIs, while the third section explores prediction of resistance and potential strategies to overcome resistance. Breast cancer is the most common female cancer and AIs significantly improve treatments outcomes compatibly to previously used endocrine treatments. However 10-15% of post-operative patients develop a relapse during adjuvant treatment with AIs; about 25-50% of the patients do not respond to AIs in neo-adjuvant or metastatic setting, and the majority of metastatic patients who initially respond develop resistance within 3 years. There is an important need to understand these mechanisms of resistance in order to develop methods of preventing or overcoming the resistance to AIs, which will ensure a more successful outcome in treating breast cancer.

Bacterial Persistence

Written by the foremost authority in the field, this volume is a comprehensive review of the multifaceted phenomenon of hepatotoxicity. Dr. Zimmerman examines the interface between chemicals and the liver; the latest research in experimental hepatotoxicology; the hepatotoxic risks of household, industrial, and environmental chemicals; and the adverse effects of drugs on the liver. This thoroughly revised, updated Second Edition features a greatly expanded section on the wide variety of drugs that can cause liver injury. For quick reference, an appendix lists these medications and their associated hepatic injuries. Also included are in-depth discussions of drug metabolism and factors affecting susceptibility to liver injury.

Targeted Cancer Therapies, From Small Molecules to Antibodies

Cancer is a multifaceted disease in which genetic changes induce uncontrolled tumor growth. Genomic characterization of cancer is now leading to better diagnostic, prognostic and predictive biomarkers,

and effective individualized management. 'Fast Facts: Comprehensive Genomic Profiling' provides a crash course in the science, methods and application of genomic profiling. Assuming only the most basic knowledge – or memory – of cell biology, the authors provide an overview of DNA and RNA biology and next-generation sequencing. This sets in context the descriptions of prognostic and predictive biomarkers for different cancer types and genomic-based treatments. Finally, but importantly, some of the practicalities of gaining and interpreting genomic information are described. Whether you need a primer or a refresher, this short colorful book demystifies this complex subject. Contents: • Genetic mutations and biomarkers • Understanding next-generation sequencing • Elements of comprehensive genomic profiles • Role in precision oncology • Predictive and prognostic biomarkers • Overcoming barriers to genotype-directed therapy

New Roles of Autophagy Pathways in Cancer

Recent advances in stem cell biology, nanotechnology and gene therapy have opened new avenues for therapeutics. The availability of molecular therapeutics that rely on the delivery of DNA, RNA or proteins, harnessing enhanced delivery with nanoparticles, and the regenerative potential of stem cells (adult, embryonic or induced pluripotent stem cells) has had a tremendous impact on translational medicine. The chapters in this book cover a range of strategies for molecular and cellular therapies for human disease, their advantages, and central challenges to their widespread application. Potential solutions to these issues are also discussed in detail. Further, the book addresses numerous advances in the field of molecular therapeutics that will be of interest to the general scientific community. Lastly, the book provides specific examples of disease conditions for which these strategies have been transferred to the clinic. As such, it will be extremely useful for all students, researchers and clinicians working in the field of translational medicine and molecular therapeutics.

Cancer Gene Therapy

The first 90 years of vitamin E research has produced prolific and notable discoveries, but until the last few decades, attention has been given mostly to the biological activities and underlying mechanisms of alpha-tocopherol, which we now know is one of more than eight vitamin E isomers. Currently, the non-tocopherol vitamin E molecule tocotrienol has reached a new measure of research height: more than one-third of all vitamin E tocotrienol research of the last 30 years has been published since 2009. The thriving field of tocotrienol research gives ground for publication of Tocotrienols: Vitamin E Beyond Tocopherols, Second Edition, a compilation of the latest tocotrienol research in all new chapters. Highlights Established research, including prevention and treatment of cardiovascular disease, metabolic syndrome, and cancer Emergent research, including angiogenesis, bioavailability, bone health, gastric injury, inflammation, life extension, and skin health Tocopherol interference with tocotrienol functions All new chapters and many new contributors Recognized as potent antioxidants, tocotrienols play a role in cholesterol reduction, tumor suppression, reversal of arteriosclerosis, and protection of the heart against oxidative stress. Compiling contributions from leading researchers, this book overviews tocotrienols, and examines their sources, chemistry, and mechanisms of action. Contributors discuss the role of tocotrienols in the treatment and prevention of cancer and in cardiovascular health, diabetes, and other hormone regulation by tocotrienols. In addition, the book addresses animal and in vitro as well as mechanistic and pre-clinical studies. Dr. Tan discusses the benefits of tocotrienol in a YouTube video.

The Heterogeneity of Cancer Metabolism

Colorectal cancer (CRC) is a major health problem because it represents around 10% of all cancers and achieves a worldwide estimate of 1.4 million newly diagnosed cases annually, resulting in approximately 700,000 deaths. Approximately 19-31% of patients present liver metastases. At diagnosis, a further 23-38% will develop extra-hepatic disease. Over the past decade, the widespread use of modern chemotherapeutic and biological agents, combined with laparoscopic surgical techniques, has improved the prognosis of metastatic CRC. A better understanding of the biology of the tumor, along with high efficiency of diagnostic and therapeutic methods, as well as the spread of screening programs, will improve the survival of the CRC patients in the near future.

Contemporary Management of Intracranial Metastatic Disease

Cancer has become a leading cause of death and disability and a serious yet unforeseen challenge to health systems in low- and middle-income countries. A protracted and polarized cancer transition

is under way and fuels a concentration of preventable risk, illness, suffering, impoverishment from ill health, and death among poor populations. Closing this cancer divide is an equity imperative. The world faces a huge, unperceived cost of failure to take action that requires an immediate and large-scale global response. Closing the Cancer Divide presents strategies for innovation in delivery, pricing, procurement, finance, knowledge-building, and leadership that can be scaled up by applying a diagonal approach to health system strengthening. The chapters provide evidence-based recommendations for developing programs, local and global policy-making, and prioritizing research. The cases and frameworks provide a guide for developing responses to the challenge of cancer and other chronic illnesses. The book summarizes results of the Global Task Force on Expanding Access to Cancer Care and Control in Developing Countries, a collaboration among leaders from the global health and cancer care communities worldwide, originally convened by Harvard University. It includes contributions from civil society, global and national policy-makers, patients and practitioners, and academics representing an array of fields.

Journal of the National Cancer Institute

The book 'Breast Cancer and Surgery' summarizes the treatment options from the onset of breast carcinogenesis to early-local advanced and metastatic breast cancer. Chemotherapy alternatives, drug resistance and local and surgical treatment preferences are extensively discussed and this information is especially directed at clinicians, researchers, and students. This book includes a comparison between different chemotherapy agents and targeted therapies with published phase II-III studies. The importance of palliative care and dietary supplements administered during the treatment course in reducing the comorbidity of patients is emphasized. Photodynamic treatments have been included in this book. A comprehensive and up-to-date information exchange that can be accessed through a single source is provided to all researchers interested in breast cancer.

Resistance to Aromatase Inhibitors in Breast Cancer

The book comprehensively reviews and provides detailed insight into the cellular and molecular signalling mechanisms involved in pathophysiology of various respiratory diseases, towards developing effective therapeutic strategies in the management and treatment of lung disease. It also covers promising advances in the field of therapeutics that could lead to novel clinical therapies capable of preventing or reversing the disease features including novel strategies for targeting chronic lung diseases using advanced drug delivery systems. Importantly, the book examines the significance and relevance of the plant extracts and their constituents with therapeutic efficiencies against lung diseases. As such, the book offers a blend of translational, biological, chemical, and drug delivery aspects relevant to respiratory diseases, thus, offering a valuable resource for pulmonologists and translational researchers working in the field of pulmonary biology and respiratory medicine.

Hepatotoxicity

This book presents a state-of-the-art report on recent advances concerning Ganoderma and where the field is going. Although some older work is also cited, the main focus is on advances made over the past 20 years in the pharmacology and clinical applications of Ganoderma. Ganoderma lucidum (Lingzhi) has been used as a traditional medicine in Asian countries to maintain health and to treat diseases for more than two thousand years. Recently, its value has been demonstrated in preventing and treating certain diseases, such as tumors, liver disorders, renal injury, hypercholesterolemia, obesity, cerebral ischemia reperfusion, bronchitis etc. In addition, laboratory and clinical studies have confirmed that the chemical components of Ganoderma, such as Ganoderma lucidum polysaccharide peptides and triterpenes isolated from the fruiting body of Ganoderma lucidum, produce diverse pharmacological effects. Ganoderma and its components play an important part in antioxidant stress, radical-scavenging, immunomodulation, and intracellular signaling regulation, and accordingly warrant further study. This book systematically reviews the latest advances in our understanding of pharmacology and clinical applications of Ganoderma, and offers researchers and graduate students valuable new insights into the pharmacology and clinical applications of Ganoderma and related products.

Fast Facts: Comprehensive Genomic Profiling

This timely desk reference focuses on marine-derived bioactive substances which have biological, medical and industrial applications. The medicinal value of these marine natural products are assessed and discussed. Their function as a new and important resource in novel, anticancer drug

discovery research is also presented in international contributions from several research groups. For example, the potential role of Spongistatin, Apratoxin A, Eribulin mesylate, phlorotannins, fucoidan, as anticancer agents is explained. The mechanism of action of bioactive compounds present in marine algae, bacteria, fungus, sponges, seaweeds and other marine animals and plants are illustrated via several mechanisms. In addition, this handbook lists various compounds that are active candidates in chemoprevention and their target actions. The handbook also places into context the demand for anticancer nutraceuticals and their use as potential anti-cancer pharmaceuticals and medicines. This study of advanced and future types of natural compounds from marine sources is written to facilitate the understanding of Biotechnology and its application to marine natural product drug discovery research.

Gene and Cell Therapy: Biology and Applications

This is an open access book. With a wealth of exciting data emerging in this rapidly evolving field this book will review the state-of-the-art knowledge with emphasis on multidisciplinary decision and management of head and neck cancer. The book provides significant detail on a wide range of topics including: the role of new targets for treatment, immunotherapy, resistance mechanisms, standardizing molecular profiling programs, and new methods to guide therapeutic approaches. In addition different disease situations are addressed including different treatment approaches in primary disease and in recurrent and/or metastatic disease as well as new developments in pathology, surgery and reconstruction techniques, new systemic therapies in salivary gland cancer, and supportive care and follow-up. All disciplines involved in the treatment of head & neck cancer are covered with a focus on translation into daily practice. The 8th-THNO is designed for medical oncologists, head and neck surgeons, radiation oncologists, otolaryngologists, and other medical professionals involved in the treatment of patients with head and neck cancer.

Tocotrienols

This textbook combines essential information on clinical cancer medicine with a guide to the latest advances in molecular oncology and tumor biology. Providing a systematic overview of all types of solid tumors, including epidemiology and cancer prevention, genetic aspects of hereditary cancers, differential diagnosis, typical signs and symptoms, diagnostic strategies and staging, and treatment modalities, it also discusses new and innovative cancer treatments, particularly targeted therapy and immunotherapy. Expert commentaries at the end of each chapter highlight key points, offer insights, suggest further reading and discuss clinical application using case descriptions. This textbook is an invaluable, practice-oriented tool for medical students just beginning their clinical oncology studies, as well as for medical oncology residents and young professionals.

Colorectal Cancer

Reviews the origins of molecular oncology, including technologies for cancer analysis, key pathways in human malignancies, and available pharmacologic therapies.

Closing the Cancer Divide

This book is a printed edition of the Special Issue "Human Polyomaviruses and Papillomaviruses" that was published in IJMS

Breast Cancer and Surgery

Targeted cancer therapies, from small molecules to antibodies, volume II