

Cancer Biology By Raymond

First multi-year cumulation covers six years: 1965-70.

Epithelial phenotype is a dynamic stage of differentiation that can be modulated during several physiological or pathological events. The rapid conversion to a mesenchymal-like phenotype is called an epithelial-mesenchymal transition (EMT). The Rise and Fall of Epithelial Phenotype is the first book to comprehensively introduce the concept of EMT. The first part of this volume describes main examples and models and explains their physiological relevance. These examples include hydra morphogenesis, gastrulation in mouse, drosophila and sea urchin, as well as neural crest cell migration and heart morphogenesis in vertebrates. Part two reviews in detail, specific EMT molecular pathways covering extracellular induction, transduction and transcription response and modulation of cell-cell adhesion structures. It emphasizes new specific pathways with potential medical applications. EMTs can also be linked to pathological events such as wound healing and cancer progression, as detailed in this section of the book.

The study of the biology of tumours has grown to become markedly interdisciplinary, involving chemists, statisticians, epidemiologists, mathematicians, bioinformaticians, and computer scientists alongside biologists, geneticists, and clinicians. The Oxford Textbook of Cancer Biology brings together the most up-to-date developments from different branches of research into one coherent volume, providing a comprehensive and current account of this rapidly evolving field. Structured in eight sections, the book starts with a review of the development and biology of multi-cellular organisms, how they maintain a healthy homeostasis in an individual, and a description of the molecular basis of cancer development. The book then illustrates, as once cells become neoplastic, their signalling network is altered and pathological behaviour follows. It explores the changes that cancer cells can induce in nearby normal tissue, the new relationship established between them and the stroma, and the interaction between the immune system and tumour growth. The authors illustrate the contribution provided by high throughput techniques to map cancer at different levels, from genomic sequencing to cellular metabolic functions, and how information technology, with its vast amounts of data, is integrated with traditional cell biology to provide a global view of the disease. The effect of the different types of treatments on the biology of the neoplastic cells are explored to understand on the one side, why some treatments succeed, and on the other, how they can affect the biology of resistant and recurrent disease. The book concludes by summarizing what we know to date about cancer, and in what direction our understanding of cancer is moving. Edited by leading authorities in the field with an international team of contributors, this book is an essential resource for scholars and professionals working in the wide variety of sub-disciplines that make up today's cancer research and treatment community. It is written not only for consultation, but also for easy cover-to-cover reading.

Never Fear Cancer Again

Cellular and Genetic Mechanisms of Disease Development and Progression

Subject Index of Extramural Research Administered by the National Cancer Institute

TAM Receptors in Health and Disease

Advances in Cancer Research

Oncology Book of 2011, British Medical Association's Medical Book Awards Awarded first prize in the Oncology category at the 2011 BMA Medical Book Awards, Monoclonal Antibody and Peptide-Targeted Radiotherapy of Cancer helps readers understand this hot pharmaceutical field with up-to-date developments. Expert discussion covers a range of diverse topics associated with this field, including the optimization of design of biomolecules and radiochemistry, cell and animal models for preclinical evaluation, discoveries from key clinical trials, radiation biology and dosimetry, and considerations in regulatory approval. With chapters authored by internationally renowned experts, this book delivers a wealth of information to push future discovery.

Cell Cycle Proteins—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Cyclin-Dependent Kinases in a concise format. The editors have built Cell Cycle Proteins—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Cyclin-Dependent Kinases in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Cell Cycle Proteins—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

This book summarizes the latest findings about the role of cancer stem cells (CSCs) in cancer biology and how this knowledge could be used for novel anticancer therapies. It provides an overview of CSCs in selected malignancies with particular emphasis on hematopoietic neoplasias. It then reviews the role of CSCs in metastasis formation and initiation of cancer relapses. It also examines the dark side of cancer therapy such as conventional cancer therapies that may lead to the origin of recurrence CSCs. Finally, it supplies a brief overview of current concepts that may allow for a selective eradication of CSCs.

Concepts of Epithelial-Mesenchymal Transition

Oxford Textbook of Cancer Biology

Research Grants Index

Journal of the National Cancer Institute

Cold Spring Harbor Symposia on Quantitative Biology

The definitive guide to the basic principles and latest advances inNutritional Genomics Though still in its infancy, nutritional genomics, or“nutrigenomics,” has revealed much about the complex interactionsbetween diet and genes. But it is in its potential applicationsthat nutrigenomics promises to revolutionize the ways we managehuman health and combat disease in the years ahead. Great progressalready has been made in modeling “personalized” nutrition foroptimal health and longevity as well as in genotype-based dietaryinterventions for the prevention, mitigation, or possible cure of avariety of chronic diseases and some types of cancer. Topics covered include:
* Nutrients and gene expression
* The role of metabolomics in individualized health
* Molecular mechanisms of longevity regulation and calorierestriction
* Green tea polyphenols and soy peptides in cancer prevention
* Maternal nutrition and fetal gene expression
* Genetic susceptibility to heterocyclic amines from cookedfoods
* Bioinformatics and bio computation in nutrigenomics
* The pursuit of optimal diets Written by an all-star team of experts from around the globe, thisvolume provides an integrated overview of the cutting-edge field ofnutritional genomics. The authors and editors lead an in-depthdiscussion of the fundamental principles and scientificmethodologies that serve as the foundation for nutritional genomicsand explore important recent advances in an array of relateddisciplines. Each self-contained chapter builds upon itspredecessor, leading the reader seamlessly from basic principles tomore complex scientific findings and experimental designs.Scientific chapters are carefully balanced with those addressingthe social, ethical, regulatory, and commercial implications ofnutrigenomics.

Advances in molecular biology over the last several decades are being steadily applied to our understanding of the molecular biology of cancer, and these advances in knowledge are being translated into the clinical practice of oncology. This volume explores some of the most exciting recent advances in basic research on the molecular biology of cancer and how this knowledge is leading to advances in the diagnosis, treatment, and prevention of cancer.
* This series provides a forum for discussion of new discoveries, approaches, and ideas
* Contributions from leading scholars and industry experts
* Reference guide for researchers involved in molecular biology and related fields

This comprehensive guide delivers informed help along with effective tools for reclaiming your vitality in the midst of cancer treatment, healing, and recovery. When you or a loved one is faced with a cancer diagnosis, the need for accurate and trusted medical information becomes urgent. Naturopathic physician Lise N. Alschuler and medical journalist Karolyn A. Gazella present an overview of what cancer is, its causes and preventative strategies, an in-depth approach to integrative treatment options, descriptions of key body functions, and discussions of more than twenty specific cancers. The Definitive Guide to Cancer, now in its third edition, encourages you to take an integrative approach that embraces both alternative and conventional therapies across the spectrum of cancer prevention, treatment, and healing.

National Library of Medicine Current Catalog

Cancer Research

Nutritional Genomics

A Biopsychosocial Approach

Cumulative listing

Aimed at both students and new researchers, the fourth edition of this text provides a concise yet comprehensive overview of cancer biology, covering the current status of both research and treatment.

HIV/AIDS and Human Papillomavirus: New Insights for the Healthcare Professional: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Genetics in a concise format. The editors have built HIV/AIDS and Human Papillomavirus: New Insights for the Healthcare Professional: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Genetics in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of HIV/AIDS and Human Papillomavirus: New Insights for the Healthcare Professional: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Most cancer research dollars have been wasted by asking the wrong questions, looking in the wrong places, and recycling the same failed approaches while expecting different results. Conventional cancer treatments damage health, cause new cancers, lower the quality of life, and decrease the chances of survival. In fact, most people who die from cancer are not dying from cancer, but from their treatments! That's the bad news. Here's the good news: We can end the cancer epidemic. In Never Fear Cancer Again, readers will gain a revolutionary new understanding of health and disease and will come to understand that cancer is a biological process that can be turned on and off, not something that can be surgically removed or destroyed with radiation or toxic chemicals. So whether cancer has already been diagnosed or if prevention is the concern, it is possible to turn off the wayward production of these malfunctioning cells once and for all by reading this book and implementing its strategies. The key to any disease has one simple cause: malfunctioning cells that are created by either deficiency or toxicity. By switching off the malfunctioning cells, you switch off the cancer. Never Fear Cancer Again guides readers along six pathways that cause deficiency or toxicity at the cellular level: nutritional path, genetic path, medical path, toxin path, physical path, and the psychological path. By making key lifestyle changes, people truly have the power to take control of cancer and transform their health. This radically different, yet holistic approach restored author Raymond Francis back to health just as it has helped thousands of others, many of whom were told they had no other options or that their cancer was incurable. Take back your health with this book and never fear cancer again.

Subject Index of Current Extramural Research Administered by the National Cancer Insitute

Biomedical Index to PHS-supported Research: Project number listing, investigator listing

Biomedical Index to PHS-supported Research

Cell Adhesion and Cytoskeletal Molecules in Metastasis

This book is in many ways a sequel to The Biochemistry ofGlycoproteins and Proteoglycans. The enormous recent progress in understanding the biological roles of glycoproteins has prompted the present volume. The reasons for studying glycoproteins have multiplied, and in the present volume the roles played by glycoproteins are explored in a variety of biological situations. The first two chapters describe molecules involved in cell-substratum and cell-cell interactions in a broad sense, and also focus on recent progress in identifying specific attachment molecules. Our understanding of how normal processes, such as cellular differentiation and tissue organization, are regulated is dependent on understanding how cells interact with the extracellular matrix. When these processes go awry the consequences can be tragic, for example, when manifest as birth de fects and cancer. Our ability to devise appropriate therapies is in many cases limited by our understanding of such cell-matrix interactions. The third chapter explores the roles by glycoproteins during early mammalian development. The carbohydrate portions clearly play very important roles in presenting information during early embryogenesis, and an unusual tumor stem cell, the embryonal carcinoma, looks very promising in providing an experimental system for understanding how the expression of these complex carbohydrate determinants is regulated. The next three chapters explore the biology of glycoproteins in distinct situations: in the immune system, in the nervous system, and during erythropoiesis.

Cancer BiologyOxford University Press

Genetically-engineered mouse models for cancer research have become invaluable tools for studying cancer biology and evaluating novel therapeutic approaches. This volume focuses on state-of-the-art methods for generating, analyzing and validating such models for studying aspects of human cancer biology. Additionally, these models are emerging as important pre-clinical systems in which to test cancer prevention and therapeutic strategies in order to select compounds for testing in clinical trials.

Research Awards Index

HIV/AIDS and Human Papillomavirus: New Insights for the Healthcare Professional: 2013 Edition

Prostate Cancer

The Anti-Cancer Cocktail

Genetically Engineered Mice for Cancer Research

While scientists win occasional skirmishes in the battle against cancer, the overall war continues to go badly. Stories abound about revolutionary drugs that may be available in the future, but offer no real help to those who have cancer today. At present, conventional approaches continue to rely on a narrowly focused strategy of treatments, with doctors using, at best, only one or two drugs or other therapies at a time. While this may be acceptable in a laboratory setting or a clinical trial, it has done little to diminish the number of people who die each year from this dread disease. Recently, however, conventional medicine's core strategy has been re-examined, and a new, potentially more effective approach has emerged—one that combines the best of Eastern wisdom with Western science. Beyond the Magic Bullet—The Anti-Cancer Cocktail by Dr. Raymond Chang takes a penetrating look at this bold new way of treating cancer. The book begins by examining modern medicine's use of surgery, radiation, chemotherapy, hormone therapy, and targeted drugs in the war against cancer. It then offers a new therapy based on the knowledge that certain off-label drugs, nutrients, and therapies are each somewhat effective against cancer. By combining these therapeutic agents into a “cocktail,” doctors have found that they can attack the cancer all at once, on many different levels and at several different angles, with the goal of overwhelming the disease. Dr. Chang not only discusses the effectiveness of the cocktail, but also provides an examination of the most valuable agents available. For over a thousand years, Traditional Chinese Medicine has used the cocktail approach to safely and effectively fight disease. Throughout the world, the most successful treatments for HIV and Hepatitis C are based on this strategy. Beyond the Magic Bullet—The Anti-Cancer Cocktail leads the way to a bright new future of hope and healing.

The purpose of this book is to provide a contemporary overview of the causes and consequences of prostate cancer from a cellular and genetic perspective. Written by experts in the fields of epidemiology, toxicology, cell biology, genetics, genomics, cell-cell interactions, cell signaling, hormone signaling, and transcriptional regulation, the text covers aspects of prostate cancer from disease initiation to metastasis. Chapters explore in depth the cells of origin for prostate cancer, its genomic subtypes, neural transcription factors in disease progression, epigenetic regulation of chromatin, and many other topics. This book distinguishes itself from other texts on prostate cancer by its focus on cellular and genetic mechanisms, as opposed to clinical diagnosis and management. As a result, this book will be of broad interest to basic and translational scientists with familiarity of these topics, as well as to trainees at earlier stages of their research careers.

Current information about research grants and contracts supported by the National Cancer Institute. Subject listing gives contract or grant number and topic. Investigator, grant number, and contract number indexes.

Current Catalog

JNCI.

The Physics of Cancer

ScholarlyBrief

Introduction to the Cellular and Molecular Biology of Cancer

Advances in Cancer Research provides invaluable information on the exciting and fast-moving field of cancer research. Here, once again, outstanding and original reviews are presented on a variety of topics. Provides information on cancer research Outstanding and original reviews Suitable for researchers and students

Recent years have witnessed an increasing number of theoretical and experimental contributions to cancer research from different fields of physics, from biomechanics and soft-condensed matter physics to the statistical mechanics of complex systems. Reviewing these contributions and providing a sophisticated overview of the topic, this is the first book devoted to the emerging interdisciplinary field of cancer physics. Systematically integrating approaches from physics and biology, it includes topics such as cancer initiation and progression, metastasis, angiogenesis, cancer stem cells, tumor immunology, cancer cell mechanics and migration. Biological hallmarks of cancer are presented in an intuitive yet comprehensive way, providing graduate-level students and researchers in physics with a thorough introduction to this important subject. The impact of the physical mechanisms of cancer are explained through analytical and computational models, making this an essential reference for cancer biologists interested in cutting-edge quantitative tools and approaches coming from physics.

This volume highlights the expression of specific adhesion molecules within human cancer tissues. It details the expression signatures from published DNA microarray and immunohistochemistry studies. Coverage discusses the concept that the alteration of specific adhesion molecules influence the cancer migration ability and cancer damage responses, both features are essential for the survival of an invading tumor cell.

Clinical Oncology /CD

design, analysis, pathways, validation and pre-clinical testing

Molecular Biology of Cancer: Translation to the Clinic

Monoclonal Antibody and Peptide-Targeted Radiotherapy of Cancer

Discovering the Path to Personalized Nutrition

The fourth edition of this classic text provides a thorough, yet concise review of the cellular and molecular mechanisms involved in the transformation of normal into malignant cells, the invasiveness of cancer cells into host tissues, and the metastatic spread of cancer cells in the host organism. It defines the fundamental pathophysiologic changes that occur in tumor tissue and in the host animal or patient. Each chapter discusses the historical development of a field, citing the key experimental advances to the present day, and evaluates the current evidence that best supports or rules out concepts of the molecular and cellular mechanisms regulating cancer cell behavior. For all the areas of fundamental cancer research, an effort has been made to relate basic research findings to the clinical disease states. The book is well written and well illustrated, with schematic diagrams and actual research data to demonstrate points made in the text. There is also an extensive, up-to-date bibliography, making the book valuable to scientists, and to physicians, students, and nurses interested in the field of cancer biology. The topics covered include pathologic characterization of human tumors, epidemiology of human cancer, regulation of cell proliferation and differentiation, cellular and molecular phenotypic characteristics of the cancer cell, mechanisms of carcinogenesis, tumor initiation and promotion, viral carcinogenesis, oncogenes and oncogene products, growth factors, chromosomal alterations in cancer, mechanisms of tumor metastasis, host-tumor interactions, fundamental aspects of tumor immunology, and the advances in cancer cell biology that will lead to improved diagnosis and treatment of cancer in the future.

Clinical Oncology, the American Cancer Society's textbook of cancer, presents a wealth of information about the wide range of issues in cancer. This exciting new resource will help healthcare providers adopt practices to encourage prevention and early detection, as well as provide state-of-the-art diagnosis and treatment.

Selenium plays a fascinating and still poorly understood role in the function of living cells and therefore in human health. Starting with investigations over 60 years ago into its role as a toxic agent in livestock disease, selenium studies have progressed rapidly with the application of tools from immunology and molecular biology. Selenium is now known to be important in human and animal nutrition, has been discovered as a structural component of so-called selenoproteins, and may play a number of physiological roles, ranging from cancer protection to hormone metabolism. Selenium in Biology and Human Health presents research syntheses on a range of topics involving selenium, written by specialists from around the world. It will be of interest to cell biologists and physiologists, nutritional scientists, and animal health researchers.

Cancer Biology

An Integrative Approach to Prevention, Treatment, and Healing

How to Prevent and Reverse Cancer

The Definitive Guide to Cancer, 3rd Edition

Cell Cycle Proteins—Advances in Research and Application: 2013 Edition

TAM Receptors in Health and Disease, Volume 357 in the International Review of Cell and Molecular Biology, reviews the role of TAM receptors in health and diseases. Chapters in this new release include TAM receptors and its Role in Efferocytosis: Clearance of Dead Cells, TAM family receptors and their ligands: Role in thrombosis, TAM receptors and its ligand mediated regulation of the Lymphatic System, and TAM receptors in cancer: Implications in cancer microenvironment: Implications in cancer immunotherapy, TAM receptors: A Phosphatidyserine Receptor family and its implications in Viral infections, and much more. Provides a comprehensive collection of articles on the relationship between TAM receptors and its ligands in health and disease.

Post-translational modifications of the Ligands: Requirement for TAM receptor activation, Immunogenic role of TAM receptors in the cancer microenvironment: Implications in cancer immunotherapy, TAM receptors: A Phosphatidyserine Receptor family and its implications in Viral infections, and much more. Provides a comprehensive collection of articles on the relationship between TAM receptors and its ligands in health and disease.

TAM receptor tyrosine kinase family Describes TAM receptor biology in great details Presents invited, timely review articles authored by well-established TAM receptor biologists

Represents multidisciplinary and international efforts and a combination of research and service. Containing information for patients and families, this volume will be useful to the psychologists, psychiatrists, oncologists, nurses, and social workers who help children and their families through the treatment, recovery and grieving process.

Comprehensive Handbook of Childhood Cancer and Sickle Cell Disease

Role of Cancer Stem Cells in Cancer Biology and Therapy

The Biology of Glycoproteins

Radiation Biology in Cancer Research

Selenium in Biology and Human Health