The Biology Of Cancer 2nd Edition

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De autobiografie van Charles Darwin Charles Darwin 2008-12
2020-2021 Oncology Nursing Drug Handbook Gail M. Wilkes 2019-12-02 Written especially for nurses caring for patients with cancer, the 2020-2021 Oncology Nursing Drug Handbook uniquely expresses drug therapy in terms of the nursing process: nursing diagnoses, etiologies of toxicities, and key points for nursing assessment, intervention, and evaluation. Updated annually, this essential reference provides valuable information on effective symptom management, patient education, and chemotherapy administration. Completely revised and updated, the 2018 Oncology Nursing Drug Handbook includes separate chapters on molecular and immunologic/biologic targeted therapies. These chapters provide fundamental reviews to assist nurses in understanding the cellular communication pathways disrupted by cancer. It also offers simplified content, attention to understanding the immune checkpoint inhibitors, new information about immunotherapy, new drugs and their indications, and updated indications and side effects for recently FDA approved drugs.
The Cell Cycle David Owen Morgan 2007 The Cell Cycle: Principles of Control provides an engaging insight into the process of cell division, bringing to the student a much-needed synthesis of a subject entering a period of unprecedented growth as an understanding of the molecular mechanisms underlying cell division are revealed.
Radiology, Lasers, Nanoparticles and Prosthetics Hartmut Zabel 2017-06-26 Order the Set Medical Physics and save almost 25€. Medical Physics covers the applied branch of physics concerned with the application of concepts and methods of physics to diagnostics and therapeutics of human diseases. This second volume in a series of two complements the imaging modalities presented in the first volume by those methods, which use ionizing radiation. The first chapters in part A on Radiography provide a solid background on radiation sources, interaction of radiation with matter, and dosimetry for the safe handling of radiation before introducing x-ray radiography, scintigraphy, SPECT and PET. The second part B on Radiotherapy starts from basic information on the life cycle of cells, radiation response of healthy and tumorous cells. In subsequent chapters the main methods of radiation treatment are presented, in particular x-ray radiotherapy, proton and neutron radiation therapy, and brachytherapy. The last part C, Diagnostics and Therapeutics beyond Radiology, covers laser applications, multifunctional nanoparticles and prosthetics. The present volume introduces the physical background on ionizing radiation, the biological effectiveness of radiation, as well as radiation based methods for diagnostics and therapeutics. covers the second part of the entire field of medical physics, including imaging methods with the use of ionizing radiation; radiation therapy with

photons, protons, and neutrons; laser methods, nanomedicine and prosthetics. provides an introduction for Bachelor students to the main concepts of Medical Physics during their fi rst semesters guiding them to further specialized and advanced literature. contains many questions & answers related to the content of each chapter. is also available as a set together with Volume 1. Contents Part A: Radiography X-ray generation Nuclei and isotopes Interaction of radiation with matter Radiation detection and protection X-ray radiography Scintigraphy Positron emission tomography Part B: Radiotherapy Cell cycle and cancer X-ray radiotherapy Charged particle radiotherapy Neutron radiotherapy Brachytherapy Part C: Diagnostics and therapeutics beyond radiology Laser applications in medicine Nanoparticles for nanomedical applications Prosthetics

The Biology of Cancer P.R. Burch 2012-12-06 Of all the diseases that afflict mankind those described as 'cancer' evoke the strongest emotions. 'Cancer' connotes pain, protracted suffering, hideous growth and death. It is widely and justifiably feared. In medically advanced countries, malignant neoplasms (the official term for cancers) account for a substantial proportion of all deaths. Out of a total of 575194 deaths in Eng land and Wales during the year 1970, some 117076-or 20·4 per cent-were attributed to neoplasms of one kind or another (Registrar General, 1972). Diseases of the circulatory system-mainly arteriosclerotic and degenerative heart disease-claimed many more victims, being responsible for some 50·6 per cent of all deaths, but our psyche evidently responds more to the manner of the disease than to the number of deaths it causes. Many of us will have witnessed the deterioration of a close friend or relative suffering from an inoperable cancer: such an experience induces a sense of hopelessness and helplessness. The feelings of sorrow and distress can be a powerful stimulus to action and they often result in dedicated and tireless research efforts. At the same time, the very strength and depth of the commitment may sometimes be incompatible with the detachment that is needed for objective analysis and a wise strategy. Not too rigorously, we reason that if only we can discover the causes of cancer, then our problems will be solved and our agonies relieved. Remove the cause: prevent the cancer. The logic exerts an irresistible appeal.

Het gen Siddhartha Mukherjee 2016-09-16 Siddhartha Mukherjee onderzoekt aan de hand van zijn eigen familiegeschiedenis - een verleden vol geestesziekte en psychische aandoeningen - de menselijke erfelijkheid en het effect ervan op onze levens, persoonlijkheden, keuzes en lotsbestemmingen. In weergaloos proza beschrijft hij het eeuwenlange onderzoek naar de erfelijkheidskwestie - van Aristoteles en Pythagoras via Mendel en Darwin tot aan de revolutionaire eenentwintigste- eeuwse vernieuwers die het menselijk genoom in kaart brengen. In 'Het gen. Een intieme geschiedenis' verweeft Mukherjee wetenschap en sociale historie met een persoonlijk verhaal, om een onthullende en magistrale geschiedenis te schrijven waarin een wetenschappelijke abstractie tot leven komt. Het boek is onmisbaar voor iedereen die geïnteresseerd is in de morele complexiteit van de huidige wetenschappelijke mogelijkheden om het menselijk genoom te lezen en te schrijven, en voor iedereen die zich bezorgd afvraagt wat de toekomst van de mens behelst.

Oxford Textbook of Cancer Biology Francesco Pezzella 2019-05-06 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.

Counseling About Cancer Katherine A. Schneider 2011-12-08 Important scientific discoveries and ever-changing guidelines for how to identify and manage patients with hereditary cancer syndromes are constantly evolving. This Third Edition of Counseling About Cancer is completely updated and expanded to feature five entirely new chapters on breast cancer, colon cancer, other solid tumors, clients and families, and genetic test results and follow-up. This is the only reference and clinical book on the market for cancer genetics counselors and other healthcare providers who must quickly assimilate complex and ever-changing data on the hereditary risk for cancer.

Cancer Victor R Preedy 2021-01-14 Cancer: Oxidative Stress and Dietary Antioxidants, Second Edition, covers the science of oxidative stress in cancer and the potentially therapeutic usage of natural antioxidants in the diet or food matrix. The processes within the science of oxidative stress are described in concert with other processes, such as apoptosis, cell signaling, and receptor-mediated responses. This approach recognizes that diseases are often multifactorial and that oxidative stress is a single component. Other sections cover new organ site tumors—skin and liver cancer, the role of polymorphisms, cytochrome p450s, COX gene, fatty acids, apoptosis, T cells and mitochondria, prevention/protection with anthocyanins, esculetin, nanoparticles, and more. This book is a valuable resource for cancer researchers, oncologists, nutritionists and other members of the biomedical field who are interested in enhancing treatment outcome, improving the quality of life of patients, and developing new treatments in the fight against cancer. Encompasses updated, revised and state-of-the-art information to advance cancer research Bridges the gaps between nutrition, oxidative stress, and cancer, presenting a holistic approach for health care and research Contains wide applicability to cancer research, from prevention to novel therapeutics

Epidemiology of Brain and Spinal Tumors Jahangir Moini 2021-04-16 Epidemiology of Brain and Spinal Tumors provides a single volume resource on imaging methods and neuroepidemiology of both brain and spinal tumors. The book covers a variety of imaging techniques, including computed tomography (CT), MRI, positron emission tomography (PET), and other laboratory tests used in diagnosis and treatment. Detailed epidemiology, various imaging methods, and clinical considerations of tumors of the CNS make this an ideal reference for users who will also find diverse information about structures and functions, cytology, epidemiology (including molecular epidemiology), diagnosis and treatment. This book is appropriate for neuroscience researchers, medical professionals and anyone interested in a complete guide to visualizing and understanding CNS tumors. Provides the most up-to-date information surrounding the epidemiology, biology and imaging techniques for brain and spinal tumors, including CT, MRI, PET, and others Includes full color figures, photos, tables, graphs and radioimaging Contains information that will be valuable to anyone interested in the field of neurooncology and the treatment of patients with brain and spinal tumors Serves as a source of background information for basic scientists and pharmaceutical researchers who have an interest in imaging and treatment

The Biology of Cancer Robert A. Weinberg 2013-05-15 Thoroughly updated and incorporating the most important advances in the fast-growing field of cancer biology, The Biology of Cancer, Second Edition, maintains all of its hallmark features admired by students, instructors, researchers, and clinicians around the world.The Biology of Cancer is a

textbook for students studying the molecular and cellula

Easy Medicine for Biologists Alexey Vladimirovich Baron 2020-03-04 Medical knowledge is not only necessary for people working and researching within the field of medicine. Humankind emerged due to the evolution of organic matter over the course of billions of years. From our ancestors, we have inherited the principles of organizing the genome, an anatomical structure, a chain of metabolic processes, and a way to regulate physiological functions. Since these principles, chains, and methods are largely universal, one can learn a lot about the biology of other, non-human living beings that inhabit our planet when studying human medicine. At the same time, any living being is born, lives, and dies in continuous interaction with a changing external environment. The unfavorable influence of this environment can lead to the development of a variety of diseases. This occurs so often that disease must be considered as an optional, but practically unavoidable variant for not only human existence, but also for all other species of animals, plants, fungi, myxomycetes, or microorganisms. It follows that a biologist needs a certain amount of medical knowledge. However, in standard education programs, students of biological specialities are devoted to studying the laws of life processes in detail, mostly within the limits of conventional norms. For a biologist, everything that is outside these boundaries can seem to be a kind of chaos that goes beyond the laws of life and rational explanation.

Het onsterfelijke leven van Henrietta Lacks Rebecca Skloot 2017-11-14 Haar naam was Henrietta Lacks, maar de medische wereld kent haar als HeLa. In de jaren '50 werden haar kankercellen zonder dat zij dat wist bij haar weggenomen. Met behulp van deze cellen, die letterlijk onsterfelijk zijn, werden de meest uiteenlopende geneeskundige ontdekkingen gedaan en rond de verkoop ervan ontstond een miljoenenindustrie. Het leven van Henrietta bleef echter vrijwel onbekend en ook haar familie wist tot ruim dertig jaar geleden niet van het bestaan van de cellen af. Rebecca Skloot vertelt het verhaal van de 'HeLa-cellen', maar laat ons vooral ook kennis maken met Henrietta, haar verleden en haar familie, die nog steeds worstelt met de nalatenschap van de cellen. Ze laat zien dat het verhaal van de familie Lacks onlosmakelijk verbonden is met de duistere geschiedenis van het experimenteren met Afrikaans-Amerikanen, het ontstaan van de ethiek binnen de biologie en de juridische strijd over de vraag of we de baas zijn over de materie waarvan we zijn gemaakt.

Epidemiology of Endocrine Tumors Jahangir Moini 2021-02-17 Epidemiology of Endocrine Tumors brings current data and clinical research into one source for a multidisciplinary audience. The book discusses the prevalence, incidence, etiology, pathology, diagnosis and treatment of various endocrine tumors. With clear and focused writing, it is essential reading for healthcare professionals, endocrinologists, oncologists, and public health professionals. Users will be able to bridge the knowledge gap that exists in the comprehensive coverage surrounding the epidemiology of endocrine tumors. Globally, the prevalence and incidence of endocrine tumors is high. This audience needs a treatise where they can gain a broad overview of endocrine tumors with a focus on epidemiology. Supplies information about the epidemiology of various endocrine tumors, both benign and malignant, to endocrinologists, oncologists and related health care professionals Focuses on the impact upon costs and patient deaths due to complications of these tumors Describes how endocrine tumors affect various age groups and ethnicities, discussing the prevention of endocrine tumors Presents chapters on Cancer Problem, Specific Endocrine Tumors, Prevention, Detection and Diagnosis, and Treatment of Endocrine Tumors Provides review questions with an answer key and detailed glossary

Global Epidemiology of Cancer Jahangir Moini 2022-03-22 GLOBAL EPIDEMIOLOGY OF CANCER Cancer is the second highest cause of death in the United States, and a leading cause of death globally. Our goals are to discuss the global epidemiology of various cancers, with detailed information on their prevalence, incidence, and clinical considerations. Epidemiology is the key to understanding the mortality and morbidity of cancer, and how we can prevent, diagnose, and treat the disease. Prevention of cancer is essential for saving lives. Prevalence and incidence of cancer are key factors that each government and population

must be aware of. Advances in the study of cancer occur on a regular basis, and this book provides the latest insights about relationships between the disease and stem cells, tumorigenesis, molecular interactions, pathways, channels, and immunity. Global Epidemiology of Cancer: Diagnosis and Treatment meets the needs of readers by providing current information about epidemiology (including molecular epidemiology), diagnosis, and treatment. Providing logical, step-by-step information on various cancers, this book consolidates all of the most up-to-date information and data from verified studies on all different types of cancers in the United States and throughout the world. Chapters are presented so that each includes an overview, clinical manifestations, epidemiology, pathophysiology, etiology and risk factors, diagnosis, treatment, prevention, and prognosis. Global Epidemiology of Cancer: Diagnosis and Treatment will be invaluable to graduate and postgraduate students, including medical students; nurses; physician assistants; residents in oncology; public health students and allied health students.

The Biology of Cancer Robert Allan Weinberg 2014 The new second edition has been comprehensively revised and updated to include major advances in cancer biology over the past six years. Updates include current information on: The tumor microenvironment, Metastatic dissemination, Tumor immunology, Cancer stem cells, The epithelial-mesenchymal transition, Multi-step tumorigenesis, Invasion and metastasis, Mutation of cancer cell genomes, Greatly expanded treatment of traditional therapy, Epigenetic contributions, MicroRNA involvement, The Warburg effect.

The Biology of Cancer Janice Ann Gabriel 2007-09-27 Advances in research and the treatment of cancer mean that more patients and their carers are asking healthcare professionals about the latest treatments and how they may be of benefit. It is essential that staff working with cancer patients understand fully how these new treatments work in order to disseminate timely and appropriate information to patients. The application of biology to the delivery of cancer care is playing an ever-increasing role in the management of these diseases. The Biology of Cancer: Second Edition provides details of the most recent developments in cancer care and is divided into three sections: Understanding Cancer – examines predisposing factors to developing cancer, diagnosis and its implications on the individual and society. The Science of Cancer – a closer look at the cell, genetics, the immune system, tumour markers and monoclonal antibodies. Research and Treatment – exploring translational oncology, applying research methodology to cancer research and research ethics relating to cancer. This fully updated edition also looks at evidence-based research that can be translated directly to patient care and gives details recent developments. Written by experienced, practicing healthcare professionals, The Biology of Cancer: Second Edition can easily be applied to patient care. It is an informative text for students, newly qualified nurses and practising oncology/palliative care nurses.

Cancer Biology and Treatment Aysha Divan 2020-03-27 This primer provides an overview of the complex processes underpinning cancer development and progression along with a summary of cancer treatment strategies, emphasising the development of targeted molecular therapies and the opportunities they provide. It takes a contemporary and integrated approach, encompassing debates on genetics, epigenetics, and cancer addictions, and highlighting the remaining challenges and future research directions to advance the field.

Biologie voor Dummies Donna Rae Siegfried 2001 Behandeling van de kringlopen van het leven.

The Biology and Treatment of Cancer Arthur B. Pardee 2011-09-20

Lung Cancer, An Issue of Surgical Oncology Clinics - E-Book Mark J. Krasna 2011-11-01 In this issue of Surgical Oncology Clinics of North America, Guest Editor Mark Krasna and colleagues discuss a wide range of topics devoted to lung cancer. Articles focus on pathology; updated staging systems; epidemiology of lung cancer - smoking, second hand smoke, and genetics; molecular markers for incidence, prognosis, and response to therapy; screening; diagnostic work-up; non-invasive staging techniques; surgical resection; the role of surgery following induction therapy for stage III NSCLC; the role of adjuvant chemotherapy in NSCLC (stages I-III); and much more.

Understanding Cancer Richard Mcintosh/Mcd Biology 2019-05-02

Understanding Cancer is a brand-new undergraduate textbook that uses simple language and well-chosen examples to explain the biological processes that underlie cancer and inform our methods for the diagnosis and treatment of this disease. The book has been carefully designed to provide key information relevant for students seeking a broad and accessible introduction to the cancer problem, even if they have no prior training in biology or chemistry.

Information Resources in Toxicology Steve Gilbert 2020-05-16 This new fifth edition of Information Resources in Toxicology offers a consolidated entry portal for the study, research, and practice of toxicology. Both volumes represents a unique, wide-ranging, curated, international, annotated bibliography, and directory of major resources in toxicology and allied fields such as environmental and occupational health, chemical safety, and risk assessment. The editors and authors are among the leaders of the profession sharing their cumulative wisdom in toxicology's subdisciplines. This edition keeps pace with the digital world in directing and linking readers to relevant websites and other online tools. Due to the increasing size of the hardcopy publication, the current edition has been divided into two volumes to make it easier to handle and consult. Volume 1: Background, Resources, and Tools, arranged in 5 parts, begins with chapters on the science of toxicology, its history, and informatics framework in Part 1. Part 2 continues with chapters organized by more specific subject such as cancer, clinical toxicology, genetic toxicology, etc. The categorization of chapters by resource format, for example, journals and newsletters, technical reports, organizations constitutes Part 3. Part 4 further considers toxicology's presence via the Internet, databases, and software tools. Among the miscellaneous topics in the concluding Part 5 are laws and regulations, professional education, grants and funding, and patents. Volume 2: The Global Arena offers contributed chapters focusing on the toxicology contributions of over 40 countries, followed by a glossary of toxicological terms and an appendix of popular quotations related to the field. The book, offered in both print and electronic formats, is carefully structured, indexed, and cross-referenced to enable users to easily find answers to their questions or serendipitously locate useful knowledge they were not originally aware they needed. Among the many timely topics receiving increased emphasis are disaster preparedness, nanotechnology, -omics, risk assessment, societal implications such as ethics and the precautionary principle, climate change, and children's environmental health. Introductory chapters provide a backdrop to the science of toxicology, its history, the origin and status of toxicoinformatics, and starting points for identifying resources. Offers an extensive array of chapters organized by subject, each highlighting resources such as journals, databases,organizations, and review articles. Includes chapters with an emphasis on format such as government reports, general interest publications, blogs, and audiovisuals. Explores recent internet trends, web-based databases, and software tools in a section on the online environment. Concludes with a miscellany of special topics such as laws and regulations, chemical hazard communication resources, careers and professional education, K-12 resources, funding, poison control centers, and patents. Paired with Volume Two, which focuses on global resources, this set offers the most comprehensive compendium of print, digital, and organizational resources in the toxicological sciences with over 120 chapters contributions by experts and leaders in the field.

Cancer Biology Raymond W. Ruddon 1987 Substantially expanded in its second edition, Cancer Biology incorporates the important recent advances in research on the cellular and molecular biology of cancer and provides a comprehensive discussion of the mechanisms of carcinogenesis. The text describes the malignant transformation of cells, the invasiveness of cancer cells into host tissues, and the metastatic spread of diseased cells into the host organism. In addition to a new chapter on the biology of tumor metastasis, there are three new chapters on cancer causation, dealing with the chemical and physical carcinogens; viruses and oncogenes; and chromosomal abnormalities and gene depression. Updated material on growth factors and their receptors, differentiation, and the cell matrix is also presented, and the pathophysiology of cancer as a clinical disease is discussed. Praise for the first edition: Highly recommended for readers who wish to spend several

hours with a well-written, well-selected, effectively illustrated, and well-integrated overview of the sciences that join to make up the field of tumor biology.-- The New England Journal of Medicine. I can think of no better introduction for a graduate student to contemporary cancer research, especially at the cellular level.--G.A. Currie in The Times Higher Education Supplement. Ruddon provides a status report in a rapidly moving field. The material is will presented and current, and includes excellent essays on differentiation, phenotype expression, genetic mutation, and tumor growth.... A welcome contrast to multiauthor oncologic behemoths that are too heavy to carry and too expensive to acquire.--Journal of the American Medical Association

Textbook of Cancer Epidemiology Hans-Olov Adami 2018 "Comprehensive and comprehensible, but also encouraging -- informed by the hope and belief that informed its creation." -Cancer Amid sweeping advances in the science and treatment of cancer, the TEXTBOOK OF CANCER EPIDEMIOLOGY offers students and professionals a definitive, systematic resource for understanding the factors affecting all types of human cancer. This fully updated new edition offers an overview of epidemiology's key concepts and methods as they relate to cancer (including the emerging potential of biomarkers) as well as site-specific chapters on individual cancers' natural history, pathology, descriptive epidemiology, and etiology. Taken together, these chapters forge connections between established science and the ongoing evolution of this dynamic field. Crisply and concisely written by an assembly of internationally recognized researchers, the TEXTBOOK OF CANCER EPIDEMIOLOGY offers a superlative introduction to the subject's consensuses and controversies for those embarking on their careers and a ready reference for seasoned professionals.

Branching Processes in Biology Marek Kimmel 2015-02-17 This book provides a theoretical background of branching processes and discusses their biological applications. Branching processes are a well-developed and powerful set of tools in the field of applied probability. The range of applications considered includes molecular biology, cellular biology, human evolution and medicine. The branching processes discussed include Galton-Watson, Markov, Bellman-Harris, Multitype, and General Processes. As an aid to understanding specific examples, two introductory chapters, and two glossaries are included that provide background material in mathematics and in biology. The book will be of interest to scientists who work in quantitative modeling of biological systems, particularly probabilists, mathematical biologists, biostatisticians, cell biologists, molecular biologists, and bioinformaticians. The authors are a mathematician and cell biologist who have collaborated for more than a decade in the field of branching processes in biology for this new edition. This second expanded edition adds new material published during the last decade, with nearly 200 new references. More material has been added on infinitely-dimensional multitype processes, including the infinitely-dimensional linear-fractional case. Hypergeometric function treatment of the special case of the Griffiths-Pakes infinite allele branching process has also been added. There are additional applications of recent molecular processes and connections with systems biology are explored, and a new chapter on genealogies of branching processes and their applications. Reviews of First Edition: "This is a significant book on applications of branching processes in biology, and it is highly recommended for those readers who are interested in the application and development of stochastic models, particularly those with interests in cellular and molecular biology." (Siam Review, Vol. 45 (2), 2003) “This book will be very interesting and useful for mathematicians, statisticians and biologists as well, and especially for researchers developing mathematical methods in biology, medicine and other natural sciences.” (Short Book Reviews of the ISI, Vol. 23 (2), 2003)

Haematology Nursing Marvelle Brown 2012-03-06 Haematology Nursing is a comprehensive handbook, with a nursing focus, on the care and management of patients with haematological disorders. Divided into four sections, the first provides an introduction to haematology, looking at haemopoiesis, immunology and genetics. Section Two covers non-malignant haematology, including anaemia, haemoglobinopathies and haemochromatosis. Section Three explores the pathophysiology, care and management of myeloproliferative and lymphoproliferative disorders,

including leukaemia, myeloma, and lymphoma. The final section provides information on various nursing care interventions, including blood transfusion, venous access devices, and palliative care. Aimed principally at nurses working in a variety of settings including haematology/oncology wards, medical/haematology wards, specialist bone marrow transplant centres, and community settings, Haematology Nursing is an essential and much-needed reference guide.

Het brein David Eagleman 2018-02-02 Dit is het verhaal over hoe je leven jouw hersenen vormt, en hoe je hersenen jouw leven vormen. Ga mee met de befaamde onderzoeker David Eagleman op een verrassende tour door je hersenen. De reis neemt je mee naar de wereld van extreme sporten, genocide, strafrecht, hersenchirurgie, robotica en de zoektocht naar onsterfelijkheid. Onderweg doemt uit de oneindig dichte opeenhoping van hersencellen en hun ontelbare verbindingen iets op wat je misschien niet helemaal had verwacht: jijzelf. Het boek is toegankelijk geschreven en bevat illustraties en kaders met extra uitleg en bijzondere verhalen. Voor iedereen die meer wil weten over de werking van ons brein is dit de perfecte introductie.

NKT Cells in Cancer Immunotherapy, 2nd Edition Tonya J. Webb 2020-11-20

The Biology of Cancer Janice Ann Gabriel 2007-09-27 Advances in research and the treatment of cancer mean that more patients and their carers are asking healthcare professionals about the latest treatments and how they may be of benefit. It is essential that staff working with cancer patients understand fully how these new treatments work in order to disseminate timely and appropriate information to patients. The application of biology to the delivery of cancer care is playing an ever-increasing role in the management of these diseases. The Biology of Cancer: Second Edition provides details of the most recent developments in cancer care and is divided into three sections: Understanding Cancer – examines predisposing factors to developing cancer, diagnosis and its implications on the individual and society. The Science of Cancer – a closer look at the cell, genetics, the immune system, tumour markers and monoclonal antibodies. Research and Treatment – exploring translational oncology, applying research methodology to cancer research and research ethics relating to cancer. This fully updated edition also looks at evidence-based research that can be translated directly to patient care and gives details recent developments. Written by experienced, practicing healthcare professionals, The Biology of Cancer: Second Edition can easily be applied to patient care. It is an informative text for students, newly qualified nurses and practising oncology/palliative care nurses.

Stem Cells Mary Clarke 2020-07-27 Stem cell science, encompassing basic biology to practical application, is both vast and diverse. A full appreciation of it requires an understanding of cell and molecular biology, tissue structure and physiology, the practicalities of tissue engineering and bioprocessing, and the pathways to clinical implementation—including the ethical and regulatory imperatives that our society requires us to address. Expectation and debate have been driven by the allure of regenerative medicine using stem cells as a source of replacements for damaged or aged tissues. The potential of stem cell application goes far beyond this. Highly innovative uses of stem cells are emerging as possible therapies for cancers, treating acute damage in conditions such as stroke and myocardial infarction, and resolving a whole range of diseases. Stem Cells: Biology and Application presents the basic concepts underlying the fast-moving science of stem cell biology. This textbook is written for an advanced stem cell biology course. The target audience includes senior undergraduates, first year graduate students, and practitioners in molecular biology, biology, and biomedical engineering. Stem Cells provides a comprehensive understanding of these unique cells, highlighting key areas of research, associated controversies, case studies, technologies, and pioneers in the field.

Using the Biological Literature Diane Schmidt 2014-04-14 The biological sciences cover a broad array of literature types, from younger fields like molecular biology with its reliance on recent journal articles, genomic databases, and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries. Using the Biological Literature: A Practical Guide, Fourth Edition is an annotated guide to selected resources in the biological

sciences, presenting a wide-ranging list of important sources. This completely revised edition contains numerous new resources and descriptions of all entries including textbooks. The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature. It covers both print and electronic resources including monographs, journals, databases, indexes and abstracting tools, websites, and associations—providing users with listings of authoritative informational resources of both classical and recently published works. With chapters devoted to each of the main fields in the basic biological sciences, this book offers a guide to the best and most up-to-date resources in biology. It is appropriate for anyone interested in searching the biological literature, from undergraduate students to faculty, researchers, and librarians. The guide includes a supplementary website dedicated to keeping URLs of electronic and web-based resources up to date, a popular feature continued from the third edition.

Color Atlas of Genetics Eberhard Passarge 2017-12-13 Ever since the International Human Genome Project achieved its extraordinary goal of sequencing and mapping the entire human genome, represented by approximately 3 billion base pairs, with its far-reaching implications for understanding the causes of human genetic disorders and their diagnosis, progress in the field has not slowed down. In the fifth edition of the bestselling Color Atlas of Genetics, readers will be rewarded with a complete and current overview of the field, with an emphasis on the interface between fundamental principles and practical applications in medicine and the role of signaling pathways in causing diseases. Using the acclaimed Flexibook format designed for easy visual learning and retention, the atlas is invaluable for students, clinicians, and scientists interested in staying up to date in this fast-evolving area. New fully illustrated topics in the revised fifth edition of the atlas include: An overview of disorders resulting from structural changes of the genome (genomic disorders) Abnormal imprinting patterns Examples of impaired signal pathways (laminopathies, fibrillinopathies, cohesinopathies, and others) The CRISPR-Cas system Genetic features of the aging processes Disorders due to rearrangements of chromatin in the cell nucleus, and others With almost 200 stunning color plates explained by concise texts on the opposite pages, including tables presenting useful data, a glossary of terms, key references, and online resources, the atlas presents clear and accessible concepts. It is an excellent refresher for investigators in any field of medicine or biology.

Handboek Proefdierkunde L. F. M. Van Zutphen 2017-01-20 De opvattingen over de waarde van het dier zijn de laatste decennia duidelijk veranderd. Op landelijk en Europees niveau zijn nieuwe regels met betrekking tot de uitvoering van dierproeven tot stand gekomen en wetenschappelijke verenigingen hebben zich beraden over hun positie ten aanzien van het proefdiergebruik. De actuele stand van zaken op het gebied van de proefdierkunde vindt u in dit Handboek proefdierkunde. Proefdieren, dierproeven, alternatieven en ethiek. De opzet van de vijfde druk is in grote lijnen hetzelfde als die van voorafgaande edities, maar de inhoud van een aantal hoofdstukken is grondig herzien. Dit geldt met name voor de hoofdstukken 5, 6, 10, 15, 16 en 17. Dierproeven zijn alleen geoorloofd wanneer aan een aantal strikte voorwaarden is voldaan. Een van deze voorwaarden is dat de verantwoordelijkheden voor de uitvoering van dierproeven in handen ligt van deskundigen. Aan de onderzoeker wordt de eis gesteld dat naast het behalen van een doctoraal diploma in een van de biomedische studierichtingen, de cursus proefdierkunde met goed gevolg is doorlopen. Dit boek omvat in grote lijnen de theorie van de cursus proefdierkunde voor (toekomstige) onderzoekers. Het doel van proefdierkunde is een bijdrage te leveren aan zowel de kwaliteit van het onderzoek als aan het welzijn van dieren. Vooral deze laatste doelstelling vraagt om een benadering die gebaseerd is op respect voor het dier. Dit betekent dat in dit boek niet alleen aandacht wordt geschonken aan de vaktechnische aspecten van bijvoorbeeld de zootechniek, de microbiologie, de pathologie en de anesthesiologie van proefdieren, maar ook aan de mogelijkheden tot beperking van het proefdiergebruik en aan de ethische en maatschappelijke aspecten. "

The Physics of Living Processes Thomas Andrew Waigh 2014-10-20 This full-colour undergraduate textbook, based on a two semester course,

presents the fundamentals of biological physics, introducing essential modern topics that include cells, polymers, polyelectrolytes, membranes, liquid crystals, phase transitions, self-assembly, photonics, fluid mechanics, motility, chemical kinetics, enzyme kinetics, systems biology, nerves, physiology, the senses, and the brain. The comprehensive coverage, featuring in-depth explanations of recent rapid developments, demonstrates this to be one of the most diverse of modern scientific disciplines. The Physics of Living Processes: A Mesoscopic Approach is comprised of five principal sections: • Building Blocks • Soft Condensed Matter Techniques in Biology • Experimental Techniques • Systems Biology • Spikes, Brains and the Senses The unique focus is predominantly on the mesoscale — structures on length scales between those of atoms and the macroscopic behaviour of whole organisms. The connections between molecules and their emergent biological phenomena provide a novel integrated perspective on biological physics, making this an important text across a variety of scientific disciplines including biophysics, physics, physical chemistry, chemical engineering and bioengineering. An extensive set of worked tutorial questions are included, which will equip the reader with a range of new physical tools to approach problems in the life sciences from medicine, pharmaceutical science and agriculture.

Radiation Biology for Medical Physicists C. S. Sureka 2017-10-16 This book is designed to convey as much information as possible in a concise and simple way to make it suitable for students, researchers and clinical medical physicists. Better meanings, codes and examples are included. Most of the basics are also covered for easy reference along with a glossary of objective-type questions. Upon completion of this textbook, the readers will gather knowledge about the physics, chemistry and biology of the human body towards cancer treatment using radiation.

Explaining Cancer Anya Plutynski 2018-07-18 In Explaining Cancer, Anya Plutynski addresses a variety of philosophical questions that arise in the context of cancer science and medicine. She begins with the following concerns: · How do scientists classify cancer? Do these classifications reflect nature's "joints"? · How do cancer scientists identify and classify early stage cancers? · What does it mean to say that cancer is a "genetic" disease? What role do genes play in "mechanisms for" cancer? · What are the most important environmental causes of cancer, and how do epidemiologists investigate these causes? · How exactly has our evolutionary history made us vulnerable to cancer? Explaining Cancer uses these questions as an entrée into a family of philosophical debates. It uses case studies of scientific practice to reframe philosophical debates about natural classification in science and medicine, the problem of drawing the line between disease and health, mechanistic reasoning in science, pragmatics and evidence, the roles of models and modeling in science, and the nature of scientific explanation.

Als adem lucht wordt Paul Kalanithi 2016-10-03 Op zesendertigjarige leeftijd wordt de briljante en ambitieuze neurochirurg Paul Kalanithi gediagnosticeerd met stadium IV longkanker. Van de ene op de andere dag verandert hij van een arts die levens redt in een patiënt die moet vechten voor zijn eigen leven. De laatste 22 maanden van zijn leven besluit hij zijn grote ambitie waar te maken: een meesterlijk boek schrijven over zijn bijzondere levensloop. Wat maakt het leven nog de moeite waard als je de dood in de ogen kijkt? Wat doe je als al je dromen over een toekomst plaats moeten maken voor een miserabel noodlot? Wat betekent het om een kind te krijgen en nieuw leven op aarde te zetten terwijl je eigen leven langzaam wegebt? Paul Kalanithi stierf in maart 2015, terwijl hij de laatste hand legde aan zijn memoires. Zijn wijze observaties en rijke inzichten in het leven zijn hartverscheurend. Als adem vervliegt is een onvergetelijk boek over een naderend einde en de relatie tussen arts en patiënt van een begenadigd schrijver, die helaas beide rollen moest vervullen.

Op weg naar herstel / druk 12 Oscar Carl Simonton 2007-02 Psychotherapeutische benadering van het ontstaan en de bestrijding van kanker.

Textbook of Lung Cancer, Second Edition Heine Hansen 2008-03-17 Textbook of Lung Cancer, 2nd edition, published in association with the European Society of Medical Oncology, is a comprehensive and multidisciplinary text, which examines all aspects of this disease, with

contributions from a multinational team of authors on etiology, epidemiology, molecular biology, pathology, smoking, detection and management, clinical features, staging and prognostic factors, surgery, radiotherapy and chemotherapy. It provides essential information and guidance for specialist trainees in oncology, and for the many physicians and specialists involved in the field of lung cancer.