

Caac Atpl Test Questionnaire

This is a comprehensive reference for urological disorders, including adult and pediatric problems. Given the nature of the 5 Minute format, it is more useful for medical than surgical approaches to urologic problems, and thus functions well for Surgery, for which Len Gomella is also an editor. As a comprehensive reference it occupies a vacant spot in the market between good but smaller and less comprehensive handbooks and encyclopedic, often multivolume, textbooks. It is useful for the Editor includes a number of new entries and a new section of algorithms for some of the most common or problematic diagnoses. The organization of the book has been revamped so that all standard 2-page entries are printed in alphabetical order. The short entries are printed in alphabetical order in their own section after the standard entries.

The UK Radiotelephony Manual (CAP 413) aims to provide pilots, Air Traffic Services personnel and aerodrome drivers with a compendium of clear, concise, standard phraseology and associated guidance for radiotelephony communication in flight. In this Special Issue of Life, we invited researchers from all over the world to share advances in their understanding of ecological, cellular, and molecular mechanisms of cyanobacterial survival. This includes original work and review articles on the strategies of gene and protein regulation, global studies, and new discoveries related to the differentiation of spore-like akinetes, motile hormogonia, and nitrogen-fixing heterocysts.

From Cancer Patient to Cancer Survivor

Oncology in the Precision Medicine Era

How I Beat Progressive MS Using Paleo Principles and Functional Medicine

Who Classification of Tumours

Aerospace

Air Pictorial

Fast Facts: Comprehensive Genomic ProfilingMaking precision medicine possibleKarger Medical and Scientific Publishers

****When not purchasing directly from the official sales agents of the WHO, especially at online bookshops, please note that there have been issues with counterfeited copies. Buy only from known sellers and if there are quality issues, please contact the seller for a refund.***** Thoracic Tumours is the fifth available volume in the fifth edition of the WHO series on the classification of human tumours. This series (also known as the WHO Blue Books) is regarded as the gold standard for the diagnosis of tumours and comprises a unique synthesis of histopathological diagnosis with digital and molecular pathology. These authoritative and concise reference books provide indispensable international standards for anyone involved in the care of patients with cancer or in cancer research, underpinning individual patient treatment as well as research into all aspects of cancer causation, prevention, therapy, and education. What's new in this edition? The fifth edition, guided by the WHO Classification of Tumours Editorial Board, establishes a single coherent cancer classification presented across a collection of individual volumes organized on the basis of anatomical site (digestive system, breast, soft tissue and bone, etc.) and structured in a systematic manner, with each tumour type listed within a taxonomic classification: site, category, family (class), type, and subtype. In each volume, the entities are now listed from benign to malignant and are described under an updated set of headings, including histopathology, diagnostic molecular pathology, staging, and easy-to-read essential and desirable diagnostic criteria. Who should read this book? * Pathologists * Oncologists * Respiratory physicians * Thoracic radiologists * Cancer researchers * Surgeons * Epidemiologists * Cancer registrars This volume: * Prepared by 217 authors and editors * Contributors from around the world * More than 1000 high-quality images * More than 3500 references

This comprehensive multidisciplinary book examines all aspects of cancers of the mouth and oropharynx with the aim of equipping advanced students and practitioners in the early stages of specialist training with an up-to-date guide and reference. A multinational team of authors – all experts in the field of oral oncology – provide illuminating contributions on the full range of relevant topics: epidemiology, risk factors, clinical features, staging and prognostic factors, pathology, diagnostic techniques, disease prevention, surgery, radiotherapy, and chemotherapy. Molecular biology, molecular targeted therapies for advanced cases, and future diagnostic and prognostic applications of new technologies also receive careful attention. In providing a wealth of essential information and guidance in a practical format, the book will be a superb asset for senior graduate students in dentistry and specialist trainees in head and neck oncology. It will also be of high value for the many physicians, surgeons, pathologists, dentists, and specialists involved in the prevention, diagnosis, and management of squamous cell carcinomas of the oral cavity and oropharynx.

Air Navigation Radio Aids

Unmanned Aircraft Systems Traffic Management

Air Commerce Regulations

Human Error in Aviation

Real World Training

Microsoft Flight Simulator X For Pilots

This book introduces unmanned aircraft systems traffic management (UTM) and how this new paradigm in traffic management integrates unmanned aircraft operations into national airspace systems. Exploring how UTM is expected to operate, including possible architectures for UTM implementations, and UTM services, including flight planning, strategic coordination, and conformance monitoring, Unmanned Aircraft Systems Traffic Management: UTM considers the boundaries of UTM and how it is expected to interlace with tactical coordination systems to maintain airspace safety. The book also presents the work of the global ecosystem of players advancing UTM, including relevant standards development organizations (SDOs), and considers UTM governance paradigms and challenges. FEATURES Describes UTM concept of operations (ConOps) and global variations in architectures Explores envisioned UTM services, including flight planning, strategic coordination, conformance monitoring, contingency management, constraints and geo-awareness, and remote identification Highlights cybersecurity standards development and awareness Covers approaches to the approval, management, and oversight of UTM components and ecosystem Considers the future of UTM and potential barriers to its success, international coordination, and regulatory reform This book is an essential, in-depth, annotated resource for developers, unmanned aircraft system operators, pilots, policy makers, researchers, and academics engaged in unmanned systems, transportation management, and the future of aviation.

Unmet healthcare needs of young populations and individuals in suboptimal health conditions are the key issue of currently observed epidemics of non-communicable disorders. Moreover, an unprecedented decrease in the average age of onset of these disorders is recorded. The majority of non-communicable disorders carry a chronic character by progressing over a couple of years from a reversible suboptimal health condition to irreversible pathology with collateral complications. The time-frame between both conditions is the operational area for predictive diagnosis and identification of persons at risk by innovative screening programmes followed by the most cost-effective personalised treatment possible, namely primary prevention tailored to the person. The book propagates the paradigm change from delayed, costly but frequently ineffective medical services to the holistic approach by predictive, preventive and personalised medicine clearly demonstrating multifaceted benefits to the individual, healthcare sector and society as a whole. The book is focused on the needs of young people: teenagers, adolescents and young adults; regardless of the age, individuals in suboptimal health conditions, who are interested in remaining healthy by optimising their modifiable risk factors - both endogenous and exogenous ones; several patient cohorts demonstrating similar phenotype of Flammer syndrome. The book is based on the multi-professional expertise, scientific excellence and practical experiences of the world-acknowledged experts in Flammer syndrome, predictive diagnostics, targeted prevention and personalised medicine, amongst others. The topic of this book is particularly relevant to general practitioners, experts in non-communicable diseases, phenotyping, genotyping, multilevel diagnostics, targeted prevention, personalised medicine, as well as the readers interested in advancing their health literacy. An integrative approach to healing chronic autoimmune conditions by a doctor, researcher, and sufferer of progressive multiple sclerosis (MS) whose TEDx talk is already a web sensation Like many physicians, Dr. Terry Wahls focused on treating her patients' ailments with drugs or surgical procedures—until she was diagnosed with multiple sclerosis (MS) in 2000. Within three years, her back and stomach muscles had weakened to the point where she needed a tilt-recline wheelchair. Conventional medical treatments were failing her, and she feared that she would be bedridden for the rest of her life. Dr. Wahls began studying the latest research on autoimmune disease and brain biology, and decided to get her vitamins, minerals, antioxidants, and essential fatty acids from the food she ate rather than pills and supplements. Dr. Wahl's adopted the nutrient-rich paleo diet, gradually refining and integrating it into a regimen of neuromuscular stimulation. First, she walked slowly, then steadily, and then she biked eighteen miles in a single day. In November 2011, Dr. Wahls shared her remarkable recovery in a TEDx talk that immediately went viral. Now, in The Wahls Protocol, she shares the details of the protocol that allowed her to reverse many of her symptoms, get back to her life, and embark on a new mission: to share the Wahls Protocol with others suffering from the ravages of multiple sclerosis and other autoimmune conditions.

Advances in Diagnosis and Treatment Apollo World Cancer Report 2014 Radiotelephony Manual The Wahls Protocol Flammer Syndrome This volume comprehensively reviews oncology in the precision medicine era of personalized care, latest developments in the field, and indications and clinical trials for the treatment of cancer with targeted therapies, immunotherapy, and epigenetic modulators. It thoroughly addresses concerns of various types of cancers including cancers of the head and neck, lung, colon, esophagus, bladder, pancreas, and breast; melanoma; multiple myeloma; hepatocellular carcinoma; renal cell carcinoma; and sarcomas. It is organized and written in a format that is easy to follow for both clinicians and non-clinical scientists interested in personalized medicine. Chapters cover the identification of the clinical problem and summary of recent findings, tumor biology and heterogeneity, genomics, examples of simple and complex cases, biological pathways, future clinical trials, and financial considerations. Oncology in the Precision Medicine Era: Value-Based Medicine will serve as a useful resource for medical oncologists and healthcare providers tailoring medicine to the needs of the individual patient, from prevention and diagnosis to treatment and follow up. Publisher Description Cancer is clearly an age-related disease. Recent research in both aging and cancer has demonstrated the complex interaction between the two phenomena. This affects a wide spectrum of research and practice, anywhere from basic research to health care organization. Core examples of these close associations are addressed in this book. Starting with basic research, the first chapters cover cancer development, mTOR inhibition, senescent cells altering the tumor microenvironment, and immune senescence affecting cancer vaccine response. Taking into account the multidisciplinary nature of geriatric oncology, several chapters focus on geriatric and oncologic aspects in patient assessment, treatment options, nursing and exercise programs. The book is rounded off by a discussion on the impact of the metabolic syndrome illustrating the interactions between comorbidity and cancer and a chapter on frailty. This book provides the reader with insights that will hopefully foster his or her reflection in their own research and practice to further the development of this most exciting field. Given the aging of the population worldwide and the high prevalence of cancer, it is essential reading not only for oncologists and geriatricians but for all health practitioners.

Recreational Pilot .: Cancer and Aging Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism Instrument Rating Knowledge Test Thoracic Tumours Fast Facts: Comprehensive Genomic Profiling World Cancer Report 2014 provides a professional, multidisciplinary assessment of all aspects of the geographical distribution, biology, etiology, prevention, and control of cancer, predicated on research. World Cancer Report is designed to provide non-specialist health professionals and policy-makers with a balanced understanding of cancer control and to provide established cancer professionals with insights about recent developments. Anatomy and biology of bone matrix and cellular elements; Skeletal physiology; Mineral homeostasis; Clinical evaluation of bone and mineral disorders; Disorders of serum minerals; Metabolic bone diseases; Genetic, developmental, and dysplastic skeletal disorders; Acquired disorders of cartilage and bone; Paget's disease; Extraskelletal (ectopic) calcification and ossification; Nephrolithiasis; Dentistry. Colorectal cancer (CRC) is a major global health challenge as the third leading cause for cancer related mortalities worldwide. Despite advances in therapeutic strategies, the five-year survival rate for CRC patients has remained the same over time due to the fact that patients are often diagnosed in advanced metastatic stages. Drug resistance is another common reason for poor prognosis. Researchers are now developing advanced therapeutic strategies such as immunotherapy, targeted therapy, and combination nanotechnology for drug delivery. In addition, the identification of new biomarkers will potentiate early stage diagnosis. This book is the first of three volumes on recent developments in colorectal diagnosis and therapy. Each volume can be read on its own, or together. Each volume focuses on different novel therapeutic advances, biomarkers, and identifies therapeutic targets for treatment. Written by leading international experts in the field, coverage also addresses the role of diet habits and lifestyle in reducing gastrointestinal disorders and incidence of CRC. Chapters discuss current and future diagnostic and therapeutic options for colorectal cancer patients, focusing on immunotherapeutic, nanomedicine, biomarkers, and dietary factors for the effective management of colon cancer.

Molecular Diagnostics of Cancer Reactor Core Materials Manual of All-weather Operations Onco-Nephrology E-Book Air Line Pilot Human Interaction, Emerging Technologies and Future Applications III

This book reports on research and developments in human-technology interaction. A special emphasis is given to human-computer interaction, and its implementation for a wide range of purposes such as healthcare, aerospace, telecommunication, and education, among others. The human aspects are analyzed in detail. Timely studies on human-centered design, wearable technologies, social and affective computing, augmented, virtual and mixed reality simulation, human rehabilitation and biomechanics represent the core of the book. Emerging technology applications in business, security, and infrastructure are also critically examined, thus offering a timely, scientifically-grounded, but also professionally-oriented snapshot of the current state of the field. The book is based on contributions presented at the 3rd International Conference on Human Interaction and Emerging Technologies: Future Applications, IHET 2020, held on August 27-29, 2020. It offers a timely survey and a practice-oriented reference guide to researchers and professionals dealing with design and/or management of the new generation of service systems. This edited textbook is a fully updated and expanded version of the highly successful first edition of Human Factors in Aviation. Written for the widespread aviation community - students, engineers, scientists, pilots, managers, government personnel, etc., HFA offers a comprehensive overview of the topic, taking readers from the general to the specific, first covering broad issues, then the more specific topics of pilot performance, human factors in aircraft design, and vehicles and systems. The new editors offer essential breath of experience on aviation human factors from multiple perspectives (i.e. scientific research, regulation, funding agencies, technology, and implementation) as well as knowledge about the science. The contributors are experts in their fields. Topics carried over from the first edition are fully updated, several by new authors who are now at the fore of the field. New material - which represents 50% of the volume - focuses on the challenges facing aviation specialists today. One of the most significant developments in this decade has been NextGen, the Federal Aviation Administration's plan to modernize national airspace and to address the impact of air traffic growth by increasing airspace capacity and efficiency while simultaneously improving safety, environmental impacts and user access. NextGen issues are covered in full. Other new topics include: High Reliability Organizational Perspective, Situation Awareness & Workload in Aviation, Human Error Analysis, Human-System Risk Management, LOSA, NOSS and Unmanned Aircraft System. Comprehensive text with up-to-date synthesis of primary source material that does not need to be supplemented New edition thoroughly updated with 50% new material and full coverage of NexGen and other modern issues Instructor website with test bank and image collection makes this the only text offering ancillary support Liberal use of case examples exposes readers to real-world examples of dangers and solutions

Get ready to take flight as two certified flight instructors guide you through the pilot ratings as it is done in the real world, starting with Sport Pilot training, then Private Pilot, followed by the Instrument Rating, Commercial Pilot, and Air Transport Pilot. They cover the skills of flight, how to master Flight Simulator, and how to use the software as a learning tool towards your pilot's license. More advanced topics demonstrate how Flight Simulator X can be used as a continuing learning tool and how to simulate real-world emergencies. Human Factors in Aviation Prevention, Diagnosis and Management Textbook of Oral Cancer Value-Based Medicine Proceedings of the 3rd International Conference on Human Interaction and Emerging Technologies: Future Applications (IHET 2020), August 27-29, 2020, Paris, France The Cambridge Aerospace Dictionary

Kidney disease and cancer are frequent comorbidities that require specialized knowledge and expertise from both the nephrologist and the oncologist. Written by three pioneers in this growing subspecialty, Onco-Nephrology provides authoritative, definitive coverage of the mechanism and management of these two life-threatening diseases. This unique, single-volume resource covers current protocols and recommends management therapies to arrest kidney failure and allow oncologic treatments to continue and succeed. Addresses acute and chronic kidney diseases that develop from a variety of cancers. This includes direct kidney injury from the malignancy, paraneoplastic effects of the cancer, and various cancer agents used to treat the malignancy. Discusses key issues regarding kidney disease in patients with cancer, including conventional chemotherapeutic regimens and new novel therapies (targeted agents and immunotherapies) or the malignancies themselves that may promote kidney injury; patients with chronic kidney disease who acquire cancer unrelated to renal failure; and kidney transplantation, which has been shown to carry an increased risk of cancer. Contains dedicated chapters for each class of the conventional chemotherapeutic agents, targeted cancer agents, and cancer immunotherapies including the basic science, pathogenic mechanisms of injury, clinical manifestations, and treatment. Includes special chapters devoted to the individual classes of chemotherapies that relate to kidney disease for quick reference. Discusses increasingly complex problems due to more numerous and specialized anti-cancer drugs, as well as increased survival rates for both cancer and renal failure requiring long-term patient care. Covers anti-VEGF (antivascular endothelial growth factor) agents and cancer immunotherapies – treatments that are being recognized for adverse kidney effects. Utilizes a clear, logical format based on the ASN Core Curriculum for Onco-Nephrology, making this reference an excellent tool for board review, as well as a practical resource in daily practice.

With the risk of more than one in three getting cancer during a lifetime, each of us is likely to experience cancer, or know someone who has survived cancer. Although some cancer survivors recover with a renewed sense of life and purpose, what has often been ignored is the toll taken by cancer and its treatment â€” on health, functioning, sense of security, and well-being. Long lasting effects of treatment may be apparent shortly after its completion or arise years later. The transition from active treatment to post-treatment care is critical to long-term health. From Cancer Patient to Cancer Survivor focuses on survivors of adult cancer during the phase of care that follows primary treatment. The book raises awareness of the medical, functional, and psychosocial consequences of cancer and its treatment. It defines quality health care for cancer survivors and identifies strategies to achieve it. The book also recommends improvements in the quality of life of cancer survivors through policies that ensure their access to psychosocial services, fair employment practices, and health insurance. This book will be of particular interest to cancer patients and their advocates, health care providers and their leadership, health insurers, employers, research sponsors, and the public and their elected representatives.

Most aviation accidents are attributed to human error, pilot error especially. Human error also greatly effects productivity and profitability. In his overview of this collection of papers, the editor points out that these facts are often misinterpreted as evidence of deficiency on the part of operators involved in accidents. Human factors research reveals a more accurate and useful perspective: The errors made by skilled human operators - such as pilots, controllers, and mechanics - are not root causes but symptoms of the way industry operates. The papers selected for this volume have strongly influenced modern thinking about why skilled experts make errors and how to make aviation error resilient.

Volume 1 The People's Liberation Army and Contingency Planning in China Anticancer Drug Development Colon Cancer Diagnosis and Therapy M ö ssbauer Isomer Shifts Making precision medicine possible

The Instrument Rating Knowledge Test Passbook(R) prepares you for your test by allowing you to take practice exams in the subjects you need to study. It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam.

All militaries have a responsibility to plan for contingencies, and China's military, the People's Liberation Army (PLA), is no exception. PLA contingency planning takes place primarily within the General Staff Department's (GSD's) First Department, also known as the GSD Operations Department. China's seven military regions participate in drafting and reviewing the plans relevant to their areas of responsibility, albeit under heavy supervision from the GSD. U.S. joint doctrine defines a contingency as "a situation that likely would involve military forces in response to natural and manmade disasters, terrorists, subversives, military operations by foreign powers, or other situations." U.S. doctrine distinguishes between deliberate planning (advance preparation of campaign and contingency plans in non-crisis situations) and crisis action planning (rapid planning in response to a developing incident or situation). Deliberate planning is typically used to develop campaign and contingency plans for a broad range of activities based on requirements identified in strategic guidance for military commanders. Crisis action planning is conducted with less advance warning (hours, days, or up to 12 months) and focuses on developing alternative courses of action or refining existing campaign or contingency plans to adapt to current circumstances. Why publish a book you can download for free? We print this book so you don't have to. Some documents are only available in electronic format. The print versions may be 6 inch by 9 inch (or smaller) so they are difficult to read. We print books a full 8 1/2 inches by 11 inches with large text and wide margins so you can jot down notes. Some documents found on the web are missing some pages or the image quality is so poor, they are difficult to read. If you find a good copy, you could print it using a network printer you share with 100 other people (typically its either out of paper or toner). If it's just a 10-page document, no problem, but if it's 250-pages, you will need to punch 3 holes in all those pages and put it in a 3-ring binder. Takes at least an hour. It's much more cost-effective to just order the latest version from Amazon.com This book includes original commentary which is copyright material. Note that government documents are in the public domain. We print these large documents as a service so you don't have to. The books are compact, tightly-bound, full-size (8 1/2 by 11 inches), with large text and glossy covers. We publish short-run books (limited numbers) so they are not the least expensive available. However, we strive to issue a high-quality product with large text that is clear and crisp. Of course, color printing is expensive, so we pass that cost along to the customer. 4th Watch Publishing is a Service Disabled Veteran Owned Small Business (SDVOSB) located in a HUBZONE. Feel free to contact me if there is a government publication you want to see printed. Our web site is: usgovpub.com

Hepatocellular carcinoma (HCC) currently ranks as the third most common cause of death. As the primary malignancy of the liver is directly related to an underlying liver condition, its incidence and profile are expected to change soon. While effective prevention programs and antiviral therapies for hepatitis B and C will lower the incidence of HCC, emerging socioeconomic issues will deliver new at-risk populations. Moreover, diagnostic techniques and protocols have undergone significant advancements. Reliance on contrast enhanced ultrasound has been re-evaluated, imaging methods being considered as sufficient diagnostic tools. Molecular characterization remains desirable, since chemotherapeutic agents still have limited applicability. In light of recent diagnostic advancements and novel therapeutic solutions, it is our belief that a comprehensive update on recent paradigm shifts and interesting upcoming developments is highly needed.

UTM

Lost in Transition

Metal Cutting and Design of Cutting Tools, Jigs & Fixtures

Brigham Intensive Review of Internal Medicine

Advanced Qualification Program

Cellular and Molecular Strategies in Cyanobacterial Survival

Present and potential future applications of new diagnostic strategies based on the direct or indirect detection of cancer genes are delineated in this volume. Among the methodological aspects covered are enzymatic target amplification by the polymerase chain reaction and related techniques, DNA fingerprinting, transfer of putative cancer genes in appropriate recipient cells, and recent developments in the application of monoclonal antibodies in immunohistochemistry and immunoscintigraphy. The diagnostic and functional implications of mutations in cancer genes such as ras and p53 are described. The characterization of cancer genes and their products is correlated with growth control and dissemination of tumour cells by in vitro or clinical evidence. The contributions in the present volume update the information available on established or newly described cancer genes, and may help manage the transition from basic research to clinical practice.

The program to land an American on the Moon and return safely to Earth in the 1960s has been called by some observers a defining event of the twentieth century. Pulitzer Prize-winning historian Arthur M. Schlesinger, Jr., even suggested that when Americans two centuries hence study the twentieth century, they will view the Apollo lunar landing as the critical event of the century. While that conclusion might be premature, there can be little doubt but that the flight of Apollo 11 in particular and the overall Apollo program in general was a high point in humanity's quest to explore the universe beyond Earth. Since the completion of Project Apollo more than twenty years ago there have been a plethora of books, studies, reports, and articles about its origin, execution, and meaning. At the time of the twenty-fifth anniversary of the first landing, it is appropriate to reflect on the effort and its place in U.S. and NASA history. This monograph has been written as a means to this end. It presents a short narrative account of the Apollo from its origin through its assessment. That is followed by a mission by mission summary of the Apollo flights and concluded by a series of key documents relative to the program reproduced in facsimile. The intent of this monograph is to provide a basic history along with primary documents that may be useful to NASA personnel and others desiring information about Apollo.

Here in a single source is a complete spectrum of ideas on the development of new anticancer drugs. Containing concise reviews of multidisciplinary fields of research, this book offers a wealth of ideas on current and future molecular targets for drug design, including signal transduction, the cell division cycle, and programmed cell death. Detailed descriptions of sources for new drugs and methods for testing and clinical trial design are also provided. One work that can be consulted for all aspects of anticancer drug development Concise reviews of research fields, combined with practical scientific detail, written by internationally respected experts A wealth of ideas on current and future molecular targets for drug design, including signal transduction, the cell division cycle, and programmed cell death Detailed descriptions of the sources of new anticancer drugs, including combinatorial chemistry, phage display, and natural products Discussion of how new drugs can be tested in preclinical systems, including the latest technology of robotic assay systems, cell culture, and experimental animal techniques Hundreds of references that allow the reader to access relevant scientific and medical literature Clear illustrations, some in color, that provide both understanding of the field and material for teaching

Hepatocellular Carcinoma

A Retrospective Analysis

From Phenotype to Associated Pathologies, Prediction, Prevention and Personalisation

The 5-minute Urology Consult

Mechanisms Underlying Host-Microbiome Interactions in Pathophysiology of Human Diseases

Only recently have we begun to appreciate the role of microbiome in health and disease. Environmental factors and change of life style including diet significantly shape human microbiome that in turn appears to modify gut barrier function affecting nutrient & electrolyte absorption and inflammation. Approaches that can reverse the gut dysbiosis represent as reasonable and novel strategies for restoring the balance between host and microbes. In the book, we offer summary and discussion on the advances in understanding of pathophysiological mechanisms of microbial host interactions in human diseases. We will not only discuss intestinal bacterial community, but also viruses, fungi and oral microbiome. Microbiome studies will facilitate diagnosis, functional studies, drug development and personalized medicine. Thus, this book will further highlight the microbiome in the context of health and disease, focusing on mechanistic concepts that underlie the complex relationships between host and microbes.

?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

Based upon the popular review course from Harvard Medical School, The Brigham Intensive Review of Internal Medicine is a comprehensive study guide for the American Board of Internal Medicine certification or maintenance of certification examination as well as for general practice review by physicians and residents. This authoritative, thorough resource provides in-depth coverage on all specialties of internal medicine, as well as palliative care, occupational medicine, psychiatry, and geriatric medicine. Editors Ajay K. Singh and Joseph Loscalzo recruited leading authorities from Harvard as well as former chief residents at Brigham and Women's Hospital to contribute to this book. Featuring over 600 board review questions, with numerous tables and figures, chapters offer detailed discussions with emphasis on essential learning points. Over 100 chapters are organized into 10 broad sections, with one additional section dedicated to board simulation. As the required content for the American Board of Internal Medicine continues to evolve, studying can prove challenging. The Brigham Intensive Review of Internal Medicine is the ideal study guide for anyone preparing for certification or recertification.