

Nakamura Tome Tmc 15 Manuals Chchch

This book offers a comprehensive review of the most common infectious diseases that affect the nervous system. Written by international experts, it provides a guide to clinicians for accurately diagnosing and treating these challenging syndromes. Organized into six sections, the book presents didactic, up-to-date information on the following topics relating to central nervous system (CNS) infections: diagnosis and evaluation of the patient, bacterial, viral, fungal and mycobacterial infections, disorders of the spinal cord, and a myriad of miscellaneous infections. Chapters specifically reflect and look to resolve the common obstacles clinicians face in the field, such as having unknown etiologies on the majority of CNS infections, insensitive and slow microbiological techniques, an increasing number of immunosuppressed individuals with atypical presentations and pathogens, and a lack of standardized diagnostic algorithms. A complex yet accessible addition to the Current Clinical Neurology Series, Neurological Complications of Infectious Diseases invaluably examines a wide range of infections that have neurological complications and sequelae.

The Inclusive Wealth Index provides important insights into long-term economic growth and human well-being. The Index measures the wealth of nations through a comprehensive analysis of a country's productive base and the country's wealth in terms of progress, well-being and long-term sustainability. It measures all assets which human well-being is based upon, in particular, produced, human and natural capital to create and maintain human well-being over time.

The International Conference on Communications, Management, and Information Technology (ICCMIT'16) provides a discussion forum for scientists, engineers, educators and students about the latest discoveries and realizations in the foundations, theory, models and applications of systems inspired on nature, using computational intelligence methodologies, as well as in emerging areas related to the three tracks of the conference: Communication Engineering, Knowledge, and Information Technology. The best 25 papers to be included in the book will be carefully reviewed and selected from numerous submissions, then revised and expanded to provide deeper insight into trends shaping future ICT.

In a conceptually current, quick-reference, Question & Answer format, the second edition of Handbook of Practical Immunohistochemistry: Frequently Asked Questions continues to provide a comprehensive and yet concise state-of-the-art overview of the major issues specific to the field of immunohistochemistry. With links to the authors Immunohistochemical Laboratory website, this volume creates a current and up-to-date information system on immunohistochemistry. This includes access to tissue microarrays (TMA) of over 10,000 tumors and normal tissue to validate common diagnostic panels and provide the best reproducible data for diagnostic purposes. Fully revised and updated from the first edition, the new features of the second edition include over 200 additional questions or revised questions with an IHC panel to answer each question; over 250 new color photos and illustrations; over 20 new useful biomarkers; hundreds of new references; several new chapters to cover phosphoproteins, rabbit monoclonal antibodies, multiplex IHC stains, overview of predictive biomarkers, and integration of IHC into molecular pathology; many new coauthors who are international experts in a related field; many updated IHC panels using Geisinger IHC data collected from over 10,000 tumors and normal tissues; and updated appendices containing detailed antibody information for both manual and automated staining procedures. Comprehensive yet practical and concise, the Handbook of Practical Immunohistochemistry: Frequently Asked Questions, Second Edition will be of great value for surgical pathologists, pathology residents and fellows, cytopathologists, and cytotechnologists.

Frequently Asked Questions

Script Effects as the Hidden Drive of the Mind, Cognition, and Culture

Resource Potential, Technical and Environmental Considerations

Salivary Diagnostics

An Evidence-Based Medicine Approach

Poly(lactic acid) Science and Technology

Unstoppable is a word defined as "difficult or impossible to preclude or stop." As a human quality, it is something that we associate with people such as sports superstars, those who do whatever it takes to inspire others and lead teams to the greatest of victories. Sometimes, an idea or person can become unstoppable. Unstoppable, like Charles Lindbergh crossing the Atlantic in a solo flight when no one had thought it was possible, or track star Roger Bannister breaking the four-minute mile barrier. Not everyone can be an explorer or a great athlete, but anyone can be unstoppable in their chosen endeavors in life. If you are willing to possess an unwavering determination to succeed and a consistent willingness to learn and evolve, you can become unstoppable and triumph too. This book is about a personal struggle, one in which the author awoke from a coma after a terrible accident and faced a life of permanent paralysis. A long battle of driven determination resulted in Yanni Raz regaining his health and becoming a self-made millionaire after migrating from his native Israel to the United States. Through careers as a musician, a Starbucks barista, a salesman, a real estate whiz, a professional poker player and a hard money lender, Yanni learned reliable principles and the skills necessary for success. Unstoppable covers many topics including controlling your life, making the best decisions, creating new opportunities, properly assessing signals, expertly negotiating, and succeeding by storytelling across the media landscape. You'll learn about integrity in business, asset diversification, and many other life tips that thousands of people learn from Yanni on a daily basis. It is time to become fearless and lead a powerful life. With Yanni's new book Unstoppable, you can do just that.

"Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." –an excerpt Presenting the first definitive study of the subject, this Handbook of Biometric Anti-Spoofing reviews the state of the art in covert attacks against biometric systems and in deriving countermeasures to these attacks. Topics and features: provides a detailed introduction to the field of biometric anti-spoofing and a thorough review of the associated literature; examines spoofing attacks against five biometric modalities, namely, fingerprints, face, iris, speaker and gait; discusses anti-spoofing measures for multi-model biometric systems; reviews evaluation methodologies, international standards and legal and ethical issues; describes current challenges and suggests directions for future research; presents the latest work from a global selection of experts in the field, including members of the TABULA RASA project.

Glacier Science and Environmental Change is an authoritative and comprehensive reference work on contemporary issues in glaciology. It explores the interface between glacier science and environmental change, in the past, present, and future. Written by the world's foremost authorities in the subject and researchers at the scientific frontier where conventional wisdom of approach comes face to face with unsolved problems, this book provides: state-of-the-art reviews of the key topics in glaciology and related disciplines in environmental change cutting-edge case studies of the latest research an interdisciplinary synthesis of the issues that draw together the research efforts of glaciologists and scientists from other areas such as geologists, hydrologists, and climatologists color-plate section (with selected extra figures provided in color at www.blackwellpublishing.com/knight). The topics in this book have been carefully chosen to reflect current priorities in research, the interdisciplinary nature of the subject, and the developing relationship between glaciology and studies of environmental change. Glacier Science and Environmental Change is essential reading for advanced undergraduates, postgraduate research students, and professional researchers in glaciology, geology, geography, geophysics, climatology, and related disciplines.

Food Hydrocolloids

Essentials of Interventional Cancer Pain Management

Measuring Progress Towards Sustainability

New Techniques for Brain Disorders

High Pressure Process Technology: Fundamentals and Applications

A Comprehensive Guide to Pomacanthidae

Salivary Diagnostics surveys one of the most exciting areas of research in oral biology. Regarded as the mirror of the body, saliva has immense potential to yield real clinical improvements in our ability to diagnose, and hence treat, oral and systemic conditions. The composition of saliva and other oral fluids reflects the tissue fluid levels of therapeutic, hormonal, and immunological molecules, as well as the presence of markers for systemic and oral disease.

This book represents the most advanced understanding of diagnosis and management of hip dysplasia in the young adult, written by the world's leading experts and covering advanced imaging and biomechanical studies as well as latest surgical techniques. This is especially timely, as the field of hip preservation surgery is in constant evolution, and it is critical that surgeons and researchers combine their efforts to provide the best evidence-based knowledge to all health care providers evaluating and treating patients suffering from pre-arthritis hip pain. Not only does this book discuss the most up-to-date information on the etiology and natural history of hip dysplasia, as well as pathomechanics and traditional and advanced imaging, it also presents new conceptions of its classification and subsequent management. The focus throughout the book is that hip dysplasia is a problem of instability, where both the bony structure and the soft tissue envelope (i.e., capsule, ligaments and muscles) are at play. Moreover, although corrective osteotomies such as the peri-acetabular osteotomy will remain the dominant treatment option, non-surgical treatments as well as hip arthroscopy are now being increasingly recognized as useful adjuncts in order for our patients to return to their desired activities. Finally, as the longevity of joint replacement surgery has improved dramatically, this should be strongly considered in cases where the outcome of joint preserving surgery is not as predictable. Orthopedic surgeons, sports medicine physicians, physiatrists and physiotherapists alike will find this book a valuable resource when treating the young adult with symptomatic hip dysplasia.

Biodegradable polymers from renewable resources are sought after for many purposes, from packaging materials in food to biomedical applications. Poly (lactic acid) (PLA) is a well-known biopolymer derived from corn starch or sugar cane used in different food packaging and artificial bones and scaffolds. Poly(lactic acid) Science and Technology first introduces the basic concepts of PLA and then covers PLA synthesis and polymerization, processing, characterization and physical properties of PLA, PLA-based nano-biocomposites, the main applications in active packaging and as biomaterials for tissue engineering, degradation and biodegradation of PLA and finally industrial and legislative issues. This interdisciplinary approach provides readers with a general overview of all relevant aspects related to PLA including fundamental issues, innovative applications, new types of processing and emerging applications, modification of PLA, life cycle assessment, bio-additives, bio/degradation and sustainability and international regulations. Experts provide a complete resource and whole perspective on PLA covering scientific, ecological, social and economic issues. The book will appeal to chemists, food technologists and materials engineers as well as researchers interested in bio-based and biodegradable polymers and composites.

Recrystallization is a phenomenon moderately well documented in the geological and metallurgical literature. This book provides a timely overview of the latest research and methods in a variety of fields where recrystallization is studied and is an important factor. The main advantage of a new look at these fields is the rapid increase in modern techniques, such as TEM, spectrometers and modeling capabilities, all of which are providing us with far better images and analysis than ever previously possible. This book will be invaluable to a wide range of research scientists; metallurgists looking to improve properties of alloys, those interested in how the latest equipment may be used to image grains and to all those who work with frozen aqueous solutions where recrystallization may be a problem.

Marine Nutraceuticals

Protein Function Prediction

Computational Medicine

Trusted Biometrics under Spoofing Attacks

Recent Developments in the Study of Recrystallization

Neurological Complications of Infectious Diseases

This text covers all aspects of the current diagnosis and treatment of acute cholecystitis. Different diagnostic tests are discussed as well as the preoperative evaluation needed to initiate treatment. Other sections include the management of acute cholecystitis in the critically ill and elderly patients, recent advances in operative strategies that have further altered the treatment of acute cholecystitis, and the utilization of routine intraoperative cholangiography and its relative merits. Primarily intended for general surgeons and residents training in general surgery, Acute Cholecystitis will also serve as a comprehensive reference material for other health care providers, including primary care providers, mid-level nurse practitioners, emergency room physicians and medical students.

Lonely because he is the only mouse in the church, Arthur asks all the town mice to join him. Unfortunately the congregation aren't so welcoming. But all is not lost when a robber tries to steal the church candlesticks, the mice foil his plans and win back their home.

Meat and meat products constitute one of the most important foods in western societies. However, the area of meat biotechnology is not as comprehensively covered as other areas of food biotechnology. Missing from this area are the recent developments for better sensory and nutritional quality as well as improved safety. The main goal of this book is to provide the reader with the recent developments in biotechnology and their applications in the meat processing chain. To achieve this goal, the book is divided into four parts. The first part deals with the use of modern biotechnology applied to farm animals. The second part focuses on the recent biotechnological developments in starter cultures for better meat fermentation. The third part discusses current approaches to improve the quality and nutritional properties of meats. The final part presents the latest advances in protection against foodborne pathogens, and other recent trends in the field. Written by distinguished international contributors, this book brings together the advances in such varied and different biotechnological topics.

The ASCRS Textbook of Surgery of the Colon and Rectum offers a comprehensive textbook designed to provide state of the art information to residents in training and fully trained surgeons seeking recertification. The textbook also supports the mission of the ASCRS to be the world's authority on colon and rectal disease. The combination of junior and senior authors selected from the membership of the ASCRS for each chapter will provide a comprehensive summary of each topic and allow the touch of experience to focus and temper the material. This approach should provide the reader with a very open minded, evidence based approach to all aspects of colorectal disease. Derived from the textbook, The ASCRS Manual of Surgery of the Colon and Rectum offers a "hands on" version of the textbook, written with the same comprehensive, evidence-based approach but distilled to the clinical essentials. In a handy pocket format, readers will find the bread and butter information for the broad spectrum of practice. In a consistent style, each chapter outlines the condition or procedure being discussed in a concise outline format – easy to read, appropriately illustrated and referenced.

Understanding and Treating Instability of the Native Hip

Second Edition

Angelfishes

The Global Carbon Cycle

An Anthology of Classic Australian Folklore

Biopharmaceutics Applications in Drug Development

Developed in conjunction with the American Society of Colon and Rectal Surgeons, this comprehensive textbook provides readers with the full scope of surgical practice for patients with diseases of the colon and rectum. Expert surgeons, all active both as educators and with busy clinical practices, have written concise and practical chapters on the most commonly done procedures while providing much-needed insight on less frequently presentations, as well. The ASCRS Textbook is designed to meet the needs not only of colorectal specialists, but also the general surgeon in practice whose caseload includes patients with disorders and diseases of the colon, rectum and anus. Residents and fellows will also find a wealth of hands-on guidance and practical tips and tricks. The ASCRS Practice Parameters are incorporated in the book along with an appendix providing the most up-to-the minute access to best practice guidelines.

Patient care and safety are addressed in each chapter. "[The ASCRS Textbook of Colon and Rectal Surgery] is a long awaited textbook for those in the field and it does not disappoint. It is brief and to the point, but does not lack the necessary detail expected from a society-produced publication. [It has an] easy-to-read quality that enhances comprehension for the trainee. It is by no means just a student textbook. The inclusion of "hot" current topics, like the anal fistula plug, makes it fresh and useful for experienced surgeons. This is an excellent addition to the colorectal library." (Doody's Review)

Clear evidence of increasing demands in the processing industry prompted the editors and authors to publish a new book about High Pressure Process Technology: Fundamentals and Applications. This book presents the latest knowledge regarding the high pressure processing aspects combined with that about the modeling, the design and the operation of safe and reliable high pressure plants and equipment. This treatment and selection of the subjects is stimulating and unique. Consisting of nine chapters, each subdivided into several sections, the book addresses the high pressure aspects, providing well selected correlated information connected with a comprehensive overview together with a large number of references. The main body of the first eight chapters refers to subjects like high pressure in general, the thermodynamics and kinetics of the fluids involved, the design of high pressure equipment, the modeling and design of reactors, separation and fractionation units, the safety aspects, the control and economics. In the extended last chapter, examples of promising high pressure applications are explained, such as chemical and enzymatic reactions in supercritical solvents, hydrogenation under supercritical conditions, supercritical water oxidation, polymerization with metallocene catalysts, supercritical extraction, fractionation and precipitation, supercritical pharma processing, ultra-high pressure sterilization and supercritical dry-cleaning.

This open access volume reveals the hidden power of the script we read in and how it shapes and drives our minds, ways of thinking, and cultures. Expanding on the Linguistic Relativity Hypothesis (i.e., the idea that language affects the way we think), this volume proposes the "Script Relativity Hypothesis" (i.e., the idea that the script in which we read affects the way we think) by offering a unique perspective on the effect of script (alphabets, morphosyllabaries, or multi-scripts) on our attention, perception, and problem-solving. Once we become literate, fundamental changes occur in our brain circuitry to accommodate the new demand for resources. The powerful effects of literacy have been demonstrated by research on literate versus illiterate individuals, as well as cross-scriptal transfer, indicating that literate brain networks function differently, depending on the script being read. This book identifies the locus of differences between the Chinese, Japanese, and Koreans, and between the East and the West, as the neural underpinnings of literacy. To support the "Script Relativity Hypothesis", it reviews a vast corpus of empirical studies, including anthropological accounts of human civilization, social psychology, cognitive psychology, neuropsychology, applied linguistics, second language studies, and cross-cultural communication. It also discusses the impact of reading from screens in the digital age, as well as the impact of bi-script or multi-script use, which is a growing trend around the globe. As a result, our minds, ways of thinking, and cultures are now growing closer together, not farther apart.

This book is the outcome of a Naill Advanced Study Institute on the contemporary global carbon cycle, held in n Ciocco, Italy, September 8-20, 1991. The motivation for this ASI originated from recent controversial findings regarding the relative roles of the ocean and the land biota in the current global balance of atmospheric carbon dioxide. Consequently, the purpose of this institute was to review, among leading experts in the field, the multitude of known constraints on the present day global carbon cycle as identified by the fields of meteorology,

physical and biological oceanography, geology and terrestrial biosphere sciences. At the same time the form of an Advanced Study Institute was chosen, thus providing the opportunity to convey the information in tutorial form across disciplines and to young researchers entering the field. The first three sections of this book contain the lectures held in II Ciocco. The first section reviews the atmospheric, large-scale global constraints on the present day carbon cycle including the emissions of carbon dioxide from fossil fuel use and it provides a brief look into the past. The second section discusses the role of the terrestrial biosphere and the third the role of the ocean in the contemporary global carbon cycle.

Glacier Science and Environmental Change

The ASCRS Manual of Colon and Rectal Surgery

Machinery Buyers' Guide

The ASCRS Textbook of Colon and Rectal Surgery

Controversies in the Technical Aspects of ACL Reconstruction

This third edition text provides a completely revised and updated new version of this unique, modern, practical text that covers the strategic evaluation, specific approaches, and detailed management techniques utilized by expert colorectal surgeons caring for patients with complex problems—whether they result from underlying colorectal disease or from complications arising from previous surgical therapy. The format follows that of both a “how to” manual as well as an algorithm-based guide to allow the reader to understand the thought process behind the proposed treatment strategy. By making use of evidence-based recommendations, each chapter includes not only background information and diagnostic/therapeutic guidelines, but also provides a narrative by the author on his/her operative technical details and perioperative “tips and tricks” that they utilize in the management of these complex surgical challenges. Distinctive to this book, is the reliance on experts in the field including past presidents of the ASCRS, as well as multiple other national and internationally recognized surgeons, to lend their personal insight into situations where data may be more sparse, but individual and collective experience is paramount to making sound decisions and thereby optimizing patient outcomes. The text includes chapters on the assessment of risk and methods utilized to minimize perioperative complications. In addition, it incorporates sections covering the medical and surgical therapies for abdominal, pelvic and anorectal disease. Moreover, the technical challenges of managing complications resulting from the original or subsequent operations is addressed. The underlying focus throughout the text is on providing pragmatic and understandable solutions that can be readily implemented by surgeons of varying experience to successfully treat complex colorectal problems. However, it also goes beyond the technical aspects of colorectal surgery and includes special sections highlighting the essence of a surgeon; covering aspects involving the medical-legal, ethical, and economic challenges confronting surgeons. Throughout the text, each author provides an ongoing narrative of his/her individual surgical techniques along with illustrations and diagrams to “personally” take the reader through the crucial steps of the procedure, and key points of patient care inherent to that topic. Additionally, where appropriate, links to online videos give the reader an up-front look into technical aspects of colorectal surgery.

This book provides the reader with the best available evidence on the most pressing issues relating to reconstruction of the anterior cruciate ligament (ACL) with the goal of supporting surgical reconstruction of the ACL and improving outcomes for patients. Key topics for which evidence-based information is presented include selection of graft material and source, the use of different surgical techniques, graft rupture in relation to surgical technique, and progression to osteoarthritis. The book will aid the surgeon in making decisions with respect to fixation devices and tensioning, the bundles to be reconstructed, and whether to preserve remnants or partial bundle ruptures. An evidence-based stance is taken on evolving topics such as the anatomy of the tibial insertion site of the ACL and the role of the anterolateral capsule and posteromedial corner in high-grade rotatory instability. Furthermore, novel technical developments for measurement of knee laxity and soft tissue navigation are discussed. The reader will also find useful information on general issues concerning physical examination, arthroscopic setup, timing of reconstruction, anesthesia, and anticoagulation.

This comprehensive book contains contributions from specialists who provide a complete status update along with outstanding issues encompassing different topics related to deep-sea mining. Interest in exploration and exploitation of deep-sea minerals is seeing a revival due to diminishing grades and increasing costs of processing of terrestrial minerals as well as availability of several strategic metals in seabed mineral resources; it therefore becomes imperative to take stock of various issues related to deep-sea mining. The authors are experienced scientists and engineers from around the globe developing advanced technologies for mining and metallurgical extraction as well as performing deep sea exploration for several decades. They invite readers to learn about the resource potential of different deep-sea minerals, design considerations and development of mining systems, and the potential environmental impacts of mining in international waters.

This text provides a comprehensive review and expertise on various interventional cancer pain procedures. The first part of the text addresses the lack of consistency seen in the literature regarding interventional treatment options for specific cancer pain syndromes. Initially, it discusses primary cancer and treatment-related cancer pain syndromes that physicians may encounter when managing cancer patients. The implementation of paradigms that can be used in treating specific groups of cancer such as breast cancer, follows. The remainder of the text delves into a more common approach to addressing interventional cancer pain medicine. After discussing interventional options that are commonly employed by physicians, the text investigates how surgeons may address some of the more severe pain syndromes, and covers the most important interventional available for our patients, intrathecal drug delivery. Chapters also cover radiologic options in targeted neurolysis and ablative techniques, specifically for bone metastasis, rehabilitation to address patients’ quality of life and function, and integrative and psychological therapies. Essentials of Interventional Cancer Pain Management globally assesses and addresses patients’ needs throughout the cancer journey. Written by experts in the field, and packed with copious tables, figures, and flow charts, this book is a must-have for pain physicians, residents, and fellows.

Reappraisal and Updated Checklist

Chemistry for Sustainable Development

Lead-Free Piezoelectrics

Tools and Challenges

Deep-Sea Mining

Unstoppable

Computational methodologies and modeling play a growing role for investigating mechanisms, and for the diagnosis and therapy of human diseases. This progress gave rise to computational medicine, an interdisciplinary field at the interface of computer science and medicine. The main focus of computational medicine lies in the development of data analysis methods and mathematical modeling as well as computational simulation techniques specifically addressing medical problems. In this book, we present a number of computational medicine topics at several scales: from molecules to cells, organs, and organisms. At the molecular level, tools for the analysis of genome variations as well as cloud computing resources for medical genetics are reviewed. Then, an analysis of gene expression data and the application to the characterization of microbial communities are highlighted. At the protein level, two types of analyses for mass spectrometry data are reviewed: labeled quantitative proteomics and lipidomics, followed by protein sequence analysis and a 3D structure and drug design chapter. Finally, three chapters on clinical applications focus on the integration of biomolecular and clinical data for cancer research, biomarker discovery, and network-based methods for computational diagnostics. This book reviews the progress made in salivary diagnostics during the past two decades and identifies the likely direction of future endeavors. After an introductory section describing the histological and anatomical features of the salivary glands and salivary function, salivary collection devices and diagnostic platforms are reviewed. The field of “salivaomics” is then considered in detail, covering, for example, proteomics, the peptidome, DNA and RNA analysis, biomarkers, and methods for biomarker discovery. Salivary diagnostics for oral and systemic diseases are thoroughly discussed, and the role of salivary gland tissue engineering for future diagnostics is explored. The book closes by considering legal issues and barriers to salivary diagnostic development. Advances in Salivary Diagnostics will be an informative and stimulating reference for both practitioners and students.

The highly experienced authors here present readers with step-wise, detail-conscious information to develop quality pharmaceuticals. The book is made up of carefully crafted sections introducing key concepts and advances in the areas of dissolution, BA/BE, BCS, IVIC, and product quality. It provides a specific focus on the integration of regulatory considerations and includes case histories highlighting the biopharmaceutics strategies adopted in development of successful drugs.

Leading scientists describe how we can reduce CO2 emissions; for graduate students and researchers.

Handbook of Practical Immunohistochemistry

Ethology and Behavioral Ecology of Odontocetes

Methods and Protocols

Advances in Salivary Diagnostics

Processing, Properties, Additives and Applications

The Carbon Cycle

Ecological restrictions in many parts of the world are demanding the elimination of Pb from all consumer items. At this moment in the piezoelectric ceramics industry, there is no issue of more importance than the transition to lead-free materials. The goal of Lead-Free Piezoelectrics is to provide a comprehensive overview of the fundamentals and developments in the field of lead-free materials and products to leading researchers in the world. The text presents chapters on demonstrated applications of the lead-free materials, which will allow readers to conceptualize the present possibilities and will be useful for both students and professionals conducting research on ferroelectrics, piezoelectrics, smart materials, lead-free materials, and a variety of applications including sensors, actuators, ultrasonic transducers and energy harvesters. This volume presents established bioinformatics tools and databases for function prediction of proteins. Reflecting the diversity of this active field in bioinformatics, the chapters in this book discuss a variety of tools and resources such as sequence-, structure-, systems-, and interaction-based function prediction methods, tools for functional analysis of metagenomics data, detecting moonlighting-proteins, sub-cellular localization prediction, and pathway and comparative genomics databases. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, step-by-step instructions of how to use software and web resources, use cases, and tips on troubleshooting and avoiding known pitfalls. Thorough and cutting-edge, Protein Function Prediction: Methods and Protocols is a valuable and practical guide for using bioinformatics tools for investigating protein function

This book concentrates on the marine mammalian group of Odontocetes, the toothed whales, dolphins, and porpoises. In 23 chapters, a total of 40 authors describe general patterns of ethological concepts of odontocetes in their natural environments, with a strong bent towards behavioral ecology. Examples are given of particularly well-studied species and species groups for which enough data exist, especially from the past 15 years. The aim is to give a modern flavor of present knowledge of ethology and behavior of generally large-brained behaviorally flexible mammals that have evolved quite separately from social mammals on land. As well, the plight of populations and species due to humans is described in multiple chapters, with the goal that an understanding of behavior can help to solve or alleviate at least some human-made problems.

Chemistry for Sustainable Development is a collection of selected papers by the participants of the International Conference on Pure and Applied Chemistry (ICPAC 2010) on the theme of “Chemistry for Sustainable Development” held in Mauritius in July 2010. In light of the significant progresses and challenges in the development and implementation of green and sustainable chemistry, this volume reviews the recent results generated by a more efficient use of resources to minimize carbon footprints, to foster the eradication or minimisation of solvent use in chemistry, and to deliver processes which lead to increased harmony between chemistry and the environment. Chemistry for Sustainable Development is written for graduates, postgraduates, researchers in industry and academia who have an interest in the fields ranging from fundamental to applied chemistry.

The Fishes of the Red Sea

Acute Cholecystitis

Shaping the Future of ICT

Psychosurgery

Handbook of Biometric Anti-Spoofing

CTI.

Psychosurgery, or the surgical treatment of mental disorders, has enjoyed a spectacular revival over the past ten years as new brain stimulation techniques have become available. Neuromodulation offers new possibilities for the treatment of psychiatric disorders such as depression, obsessive-compulsive disorder (OCD), addiction, eating disorders and autism. This work presents the history of this unique specialty and investigates current techniques and ethical challenges. With a wealth of illustrations and detailed anatomical diagrams, it provides essential information for medical practitioners, as well as anyone else interested in the fascinating advances being made in neuroscience today. « I like the book as it provides a very nice overview of psycho- surgery in general. It is easy to understand for any (para)medical practitioner, but even specialists in the field may learn new things. They may also enjoy looking the well-known and less-known figures which illustrate the book. » Professor Bart Nuttin « Reading this book is like reading an anthology, or rather an encyclopaedia of the field of psychiatric surgery, spanning more than a century. This is a work with an unprecedented degree of erudition and knowledge, and the subject is presented in a didactic, scholar, and scientific manner, and is extensively referenced and illustrated. If only one book is to be read by anybody interested in this field, regardless of specialty, this is The Book to read. » Professor Marwan Hariz

Machinery Buyers' GuideThe ASCRS Textbook of Colon and Rectal SurgerySpringer

This book collects techniques to continue exploring post-genomic land plant biology though the wisdom and skills accumulated from work on the founding molecular biology models that can now guide research into other species, including crop plants. Beginning with the visualization of plant cell structures,

the volume moves on to cover digital image analysis protocols, qualitative and quantitative detection of the organization and dynamics of individual intracellular structures, the manipulation of intracellular structures, as well as techniques for studying model cell types. Written for the highly successful

Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and fully updated, Plant Cell

Morphogenesis: Methods and Protocols, Second Edition serves as an ideal source of inspiration for further research into the morphogenesis of plant cells, tissues, and organs.

There is a great deal of consumer interest in natural bioactive substances due to their health benefits. Offering the potential to provide valuable nutraceuticals and functional food ingredients, marine-derived compounds are an abundant source of nutritionally and pharmacologically active agents, with both

chemical diversity and complexity. Functio

Hip Dysplasia

Plant Cell Morphogenesis

Current Technology Index

Twelve Years a Slave

Inclusive Wealth Report 2018

Structures, Properties, and Functions

It is now well recognised that the texture of foods is an important factor when consumers select particular foods. Food hydrocolloids have been widely used for controlling in various food products their viscoelasticity, emulsification, gelat

other functions. An international journal, FOOD HYDROCOLLOIDS, launched in 1986 has published a number of stimulating papers, and established an active forum for promoting the interaction between academics and industrialists and for c

research with industrial development. Although there have been various research groups in many food processing areas in Japan, such as fish paste (kamaboko, surimi), soybean curd (tofu), agar jelly dessert, kuzu starch jelly, kimizu (Japan

activities have been conducted in isolation of one another. The interaction between the various research groups operating in the various sectors has been weak. Symposia on food hydrocolloids have been organised on several occasions in

Phillips, the Chief Executive Editor of FOOD HYDROCOLLOIDS, suggested to us that we should organise an international conference on food hydrocolloids. We discussed it on many occasions, and eventually decided to organise such a meeti

include recent development in proteinaceous hydrocolloids, and their nutritional aspects, in addition to polysaccharides and emulsions.

Meat Biotechnology

Trends in Information Technology, Communications Engineering, and Management

Prospects and Perspectives