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This book offers a fresh look on a variety of issues concerning herbal medicine - the methods of growing and harvesting various medicinal plants; their phytochemical content; medicinal usage; regulatory issues; and mechanism of action against myriad of human and animal ailments. 'Medicinal Plants: From Farm to Pharmacy' comprises chapters authored by renowned experts from academics and industry from all over the world. It provides timely, in--depth study/analysis of medicinal plants that are already available in the market as supplements or drug components, while also introducing several traditional herbs with potential medicinal applications from various regions of the world. The book caters to the needs of a diverse group of readers: plant growers, who are looking for ways to enhance the value of their crops by increasing phytochemical content of plant products; biomedical scientists who are studying newer applications for crude herbal extracts or isolated phytochemicals; clinicians and pharmacologists who are studying interactions of herbal compounds with conventional treatment modalities; entrepreneurs who are navigating ways to bring novel herbal supplements to the market; and finally, natural medicine enthusiasts and end-users who want to learn how herbal compounds are produced in nature, how do they work and how are they used in traditional or modern medicine for various disease indications. "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 Since the discovery of p53 as a tumor suppressor, numerous methods have evolved to reveal the unique structural features and biochemical functions of this protein. Several unique properties of p53 posed a challenge to understa- ing its normal function in the initial phase of its research. The

low levels of p53 in normal cells, its stabilization under situations of genotoxic stress, induction of growth arrest, and apoptosis with stabilization of the protein, obstructed the visibility of its normal, unmutated function. The property of p53 that can sense a promoter and transactivate or inhibit is still not well understood. It is still not known whether it is the absence of the protein that causes tumorigenesis, or if its mutants have a dominant role in inducing cancer. p53 Protocols comprises eighteen chapters for the study of the diverse properties of p53 and related proteins. The methods included are invaluable for delineating the function of other proteins that may function as tumor suppr- sors or growth suppressors. The chapters are not presented in any schematic order, for the importance and diversity of the functions of p53 make it imp- sible to organize them suitably. We have made a sincere effort to collect the methods most useful to those investigators working on tumor suppressors or growth suppressors. The purpose of p53 Protocols is not only to provide investigators with methods to analyze similar biochemical functions, but also to familiarize them with the associated problems that arose during the course of investigations.

Over 50 recipes on the core features of Apache Mesos and running big data frameworks in Mesos About This Book Learn to install and configure Mesos to suit the needs of your organization Follow step-bystep instructions to deploy application frameworks on top of Mesos, saving you many hours of research and trial and error Use this practical guide packed with powerful recipes to implement Mesos and easily integrate it with other application frameworks Who This Book Is For This book is for system administrators, engineers, and big data programmers. Basic experience with big data technologies such as Hadoop or Spark would be useful but is not essential. A working knowledge of Apache Mesos is expected. What You Will Learn Set up Mesos on different operating systems Use the Marathon and Chronos frameworks to manage multiple applications Work with Mesos and Docker Integrate Mesos with Spark and other big data frameworks Use networking features in Mesos for effective communication between containers Configure Mesos for high availability using Zookeeper Secure your Mesos clusters with SASL and Authorization ACLs Solve everyday problems and discover the best practices In Detail Apache Mesos is open source cluster sharing and management software. Deploying and managing scalable applications in large-scale clustered environments can be difficult, but Apache Mesos makes it easier with efficient resource isolation and sharing across application frameworks. The goal of this book is to guide you through the practical implementation of the Mesos core along with a number of Mesos supported frameworks. You will begin by installing Mesos and then learn how to configure clusters and maintain them. You will also see how to deploy a cluster in a production environment with high availability using Zookeeper. Next, you will get to grips with using Mesos, Marathon, and Docker to build and deploy a PaaS. You will see how to schedule jobs with Chronos. We'll demonstrate how to integrate Mesos with big data frameworks such as Spark, Hadoop, and Storm. Practical solutions backed with clear examples will also show you how to deploy elastic big data jobs. You will find out how to deploy a scalable continuous integration and delivery system on Mesos with Jenkins. Finally, you will configure and deploy a highly scalable distributed search engine with ElasticSearch. Throughout the course of this book, you will get to know tips and tricks along with best practices to follow when working with Mesos. Style and approach This step-by-step guide is packed with powerful recipes on using Apache Mesos and shows its integration with contain-

This book was created in the spirit of learning from nature in the field of professional purchasing. It describes real-world purchasing problems faced by companies as well as individuals and presents natural hands-on solutions that apply scientific approaches. The book answers what the core of purchasing could be, the inner structure of it or in other words the natural way. Nature masters effectiveness based on imma-

nent laws and ensures efficiency by best results for minimal invest. Especially in complex and ambiguous situations, purchasers benefit from this book by understanding the broader context with the help of recent scientific research. Focusing on the problems that purchasers face in managerial practice rather than oversimplified generalizations, the book features step-by-step explanations, allowing readers to find tailored solutions to address challenges in key purchasing areas. The book was written in collaboration and with the help of experts in purchasing and logistics, biology, law and economics, human resource development, media and sports, and merges perspectives from theory and practice to provide natural strategies for purchasers.

Stretch Blow Molding, Third Edition, provides the latest on the blow molding process used to produce bottles of the strength required for carbonated drinks. In this updated handbook, Ottmar Brandau introduces the technology of stretch blow molding, explores practical aspects of designing and running a production line, and looks at practical issues for quality control and troubleshooting. As an experienced engineer, manager, and consultant, Brandau's focus is on optimizing the production process, improving quality, and reducing cycle time. In this new edition, the author has thoroughly reviewed the content of the book, providing updates on new developments in stretch blow molding, including neck sizes, new equipment and processes, and the economics of the process. The book is a thoroughly practical handbook which provides engineers and managers with the toolkit to improve production and engineering aspects in their own businesses, allowing them to save money, increase output, and improve competitiveness by adopting new technologies. Provides knowledge and understanding of the latest technological and best practice developments in stretch blow molding Includes money saving, practical strategies to optimize the production process, improve quality, and reduce cycle times Provides a guide to the training of operators, as well as tactics on how to troubleshoot when products are faulty, productivity is low, or machinery is not operating as expected

This volume introduces readers to the methodology of dynamic systems analysis, using mathematical modelling techniques as an aid to understanding biological phenomena. It creates an ability to appreciate current medical and biological literature, in which mathematical models are being used with increasing frequency, and provides an introduction to the more advanced techniques of systems science.

Mathematical concepts are illustrated by reference to frequent biological examples. By the use of case studies drawn from physiology, the various levels of mathematical modelling which can be adopted are presented.

In this book we provide insights into liver cancer and immunology. Experts in the field provide an overview over fundamental immunological questions in liver cancer and tumorimmunology, which form the base for immune based approaches in HCC, which gain increasing interest in the community due to first promising results obtained in early clinical trials. Hepatocellular carcinoma (HCC) is the third most common cause of cancer related death in the United States. Treatment options are limited. Viral hepatitis is one of the major risk factors for HCC, which represents a typical "inflammation-induced" cancer. mune-based treatment approaches have revolutionized oncology in recent years. Various treatment strategies have received FDA approval including dendritic cell vaccination, for prostate cancer as well as immune checkpoint inhibition targeting the CTLA4 or the PD1/PDL1 axis in melanoma, lung, and kidney cancer. Additionally, cell based therapies (adoptive T cell therapy, CAR T cells and TCR transduced T cells) have demonstrated significant efficacy in patients with B cell malignancies and melanoma. Immune checkpoint inhibitors in particular have generated enormous excitement across the entire field of oncology, providing a significant benefit to a minority of patients.

Vols. for 1970-71 includes manufacturers' catalogs.

The Mouse Nervous System provides a comprehensive account of the central nervous system of the mouse. The book is aimed at molecular biologists who need a book that introduces them to the anatomy of the mouse brain and spinal cord, but also takes them into the relevant details of development and organization of the area they have chosen to study. The Mouse Nervous System offers a wealth of new information for experienced anatomists who work on mice. The book serves as a valuable resource for researchers and graduate students in neuroscience. Systematic consideration of the anatomy and connections of all regions of the brain and spinal cord by the authors of the most cited rodent brain atlases A major section (12 chapters) on functional systems related to motor control, sensation, and behavioral and emotional states A detailed analysis of gene expression during development of the forebrain by Luis Puelles, the leading researcher in this area Full coverage of the

role of gene expression during development and the new field of genetic neuroanatomy using site-specific recombinases Examples of the use of mouse models in the study of neurological illness

This book presents the state of the art of learning factories. It outlines the motivations, historic background, and the didactic foundations of learning factories. Definitions of the term learning factory and a corresponding morphological model are provided as well as a detailed overview of existing learning factory approaches in industry and academia, showing the broad range of different applications and varying contents. Learning factory best-practice examples are presented in detailed and structured manner. The state of the art of learning factories curricula design and their use to enhance learning and research as well as potentials and limitations are presented. Further research priorities and innovative learning factory concepts to overcome current barriers are offered. While today numerous learning factories have been built in industry (big automotive companies, pharma companies, etc.) and academia in the last decades, a comprehensive handbook for the scientific community and practitioners alike is still missing. The book addresses therefore both researchers in production-related areas, that want to conduct industry-relevant research and education, as well as managers and engineers in industry, who are searching for an effective way to train their employees. In addition to this, the learning factory concept is also regarded as an innovative learning concept in the field of didactics.

Compressor Performance is a reference book and CD-ROM for compressor design engineers and compressor maintenance engineers, as well as engineering students. The book covers the full spectrum of information needed for an individual to select, operate, test and maintain axial or centrifugal compressors. It includes basic aerodynamic theory to provide the user with the "how's" and "why's" of compressor design. Maintenance engineers will especially appreciate the troubleshooting guidelines offered. Includes many example problems and reference data such as gas properties and flow meter calculations to enable easy analysis of compressor performance in practice. Includes companion CD with computer programs. M. Theodore Gresh has been with the Elliot Company in Jeannette, Pennsylvania, since 1975, initially working on the mechanical and aerodynamic design and application of centrifugal compressors. Unrivalled coverage of the theory and practical use of all kinds of compressors in industrial use from an industry-leading company source Complete subject reference and learning resource in one stop, suitable for newly graduated engineers and experienced professional reference use Includes companion CD-ROM

Presents the life of the soldier who committed a massive national security breach by releasing thousands of classified documents to WikiLeaks, exploring the influence of his political views and gender identity issues on his actions.

Handbook of Novel Psychoactive Substances (NPS) provides a comprehensive overview of the challenges that clinicians face when dealing with NPS and discusses how the profile of patients and their socio-demographic characteristics frame the serious public health concern that NPS pose. It presents various clinical cases, as well as detailed accounts of symptoms, psychopathology, toxicity, and overall clinical management that NPS require. This handbook brings together a unique collection of chapters written by leading experts in the field, who have felt the need to share their knowledge and experience to improve the clinical practice on NPS and the wellbeing of their patients.

To meet and adapt to the current and future trends and issues in technology and society, the science committee of The German Academic Society for Production Engineering (WGP) continues to define future topics for production technology. These themes represent not only the key focus for the scientific work of the WGP, but also the central themes of the first annual conference in June 2011, whose paper is publically available in this volume. Such themes, including electric mobility, medical technology, lightweight construction, and resource efficiency, as well as mass production ability have all been identified as future, large-scale, and long-term drivers of change. Future trends influence changes sustainably and fundamentally; they permeate society, technology, economics, and value systems and have an effect in virtually all areas of life. The WGP has, as part of its research, established for itself the goal of not only observing these emerging changes, but also of supervising and influencing their development in order to ensure steady progress, secure sustainability, and shape the future.

The introduction of the operating microscope as a surgical tool revolutionized the treatment of peripheral nerve lesions. A new era thus began in the early 1960s, which led to a substantial improvement in the management of nerve lesions. The results of nerve grafting techniques have demonstrated that, independent of the length of the defect, lesions can be suc-

cessfully bridged. The free tissue transplants with microvascular anastomosis have also opened new, rewarding possibilities for peripheral nerve reconstruction procedures, facilitating the achievement not only of satisfactory anatomical but also of satisfactory fUhctional results. In order to evaluate the state of the art and reflect retrospectively on 25 years of microneurosurgical treatment of peripheral nerves, numerous outstanding scientists and clinicosurgical physicians were invited to Hanover in order to exchange their viewpoints and experiences. An active und fruitful discussion resulted which dealt with the many aspects of anatomy, pathology, clinical and neuro physiology, diagnosis, and with the surgery and physiotherapy which constitute modern-day peripheral nerve lesion treatment. The excit ing ongoing experimental and clinical activities have led us to support the wish and idea to publish the scientific exchange which took place during the Hanover symposium. I truly believe that the articles presented in this book cover so many interesting subjects concerned with peripheral nerve lesions that the book will serve the interested and dedicated physician involved with such cases as a reference work for the basics and also provide him with the therapeutic guidelines to assist him in his daily work.

Pathology Informatics: Theory & Practice is the first multi- authored, current and comprehensive compendium of the diverse and rapidly expanding field of pathology informatics. It includes all of the critical and practical advice for management, operations, budgeting, and project planning and will serve as a comprehensive review of the field for students, pathologists, and laboratory professionals. This book deals with the role of computing hardware, software and databases involved in the efficient information management for pathology practice, as well as the fundamental science of informatics that is so deeply embedded in this subspecialty. The text builds from basic principles of computer theory to more sophisticated informatics concepts. Databases and data mining; networks and workstations; system interfaces and interoperability. Bioinformatics, imaging informatics, clinical informatics, and public health informatics. Automation and middleware that facilitate complex workflows encountered in both anatomic and clinical pathology practice. Molecular testing and point of care solutions. Coding and nomenclature. Standards in Laboratory Information Systems (LIS) and imaging systems. Project management and business skills. Pathology reporting. Electronic medical records. Specimen tracking and identification. Error reduction and quality management. Training and education in pathology informatics.

Single-cell omics is a progressing frontier that stems from the sequencing of the human genome and the development of omics technologies, particularly genomics, transcriptomics, epigenomics and proteomics, but the sensitivity is now improved to single-cell level. The new generation of methodologies, especially the next generation sequencing (NGS) technology, plays a leading role in genomics related fields; however, the conventional techniques of omics require number of cells to be large, usually on the order of millions of cells, which is hardly accessible in some cases. More importantly, harnessing the power of omics technologies and applying those at the single-cell level are crucial since every cell is specific and unique, and almost every cell population in every systems, derived in either vivo or in vitro, is heterogeneous. Deciphering the heterogeneity of the cell population hence becomes critical for recognizing the mechanism and significance of the system. However, without an extensive examination of individual cells, a massive analysis of cell population would only give an average output of the cells, but neglect the differences among cells. Single-cell omics seeks to study a number of individual cells in parallel for their different dimensions of molecular profile on genome-wide scale, providing unprecedented resolution for the interpretation of both the structure and function of an organ, tissue or other system, as well as the interaction (and communication) and dynamics of single cells or subpopulations of cells and their lineages. Importantly single-cell omics enables the identification of a minor subpopulation of cells that may play a critical role in biological process over a dominant subpolulation such as a cancer and a developing organ. It provides an ultra-sensitive tool for us to clarify specific molecular mechanisms and pathways and reveal the nature of cell heterogeneity. Besides, it also empowers the clinical investigation of patients when facing a very low quantity of cell available for analysis, such as noninvasive cancer screening with circulating tumor cells (CTC), noninvasive prenatal diagnostics (NIPD) and preimplantation genetic test (PGT) for in vitro fertilization. Single-cell omics greatly promotes the understanding of life at a more fundamental level, bring vast applications in medicine. Accordingly, single-cell omics is also called as single-cell analysis or single-cell biology. Within only a couple of years, single-cell omics, especially transcriptomic sequencing (scR-NA-seq), whole genome and exome sequencing (scWGS, scWES), has become robust and broadly accessible. Besides the existing technologies, recently, multiplexing barcode design and combinatorial indexing technology, in combination with microfluidic platform exampled by Drop-seq, or even being independent of microfluidic platform but using a regular PCR-plate, enable us a greater capacity of single cell analysis, switching from one single cell to thousands of single cells in a single test. The unique molecular identifiers (UMIs) allow the amplification bias among the original molecules to be corrected faithfully, resulting in a reliable quantitative measurement of omics in single cells. Of late, a variety of single-cell epigenomics analyses are becoming sophisticated, particularly single cell chromatin accessibility (scATAC-seg) and CpG methylation profiling (scBS-seq, scRRBS-seq). High resolution single molecular Fluorescence in situ hybridization (sm-FISH) and its revolutionary versions (ex. seqFISH, MERFISH, and so on), in addition to the spatial transcriptome sequencing, make the native relationship of the individual cells of a tissue to be in 3D or 4D format visually and quantitatively clarified. On the other hand, CRISPR/cas9 editing-based In vivo lineage tracing methods enable dynamic profile of a whole developmental process to be accurately displayed. Multi-omics analysis facilitates the study of multi-dimensional regulation and relationship of different elements of the central dogma in a single cell, as well as permitting a clear dissection of the complicated omics heterogeneity of a system. Last but not the least, the technology, biological noise, sequence dropout, and batch effect bring a huge challenge to the bioinformatics of single cell omics. While significant progress in the data analysis has been made since then, revolutionary theory and algorithm logics for single cell omics are expected. Indeed, single-cell analysis exert considerable impacts on the fields of biological studies, particularly cancers, neuron and neural system, stem cells, embryo development and immune system; other than that, it also tremendously motivates pharmaceutic RD, clinical diagnosis and monitoring, as well as precision medicine. This book hereby summarizes the recent developments and general considerations of single-cell analysis, with a detailed presentation on selected technologies and applications. Starting with the experimental design on single-cell omics, the book then emphasizes the consideration on heterogeneity of cancer and other systems. It also gives an introduction of the basic methods and key facts for bioinformatics analysis. Secondary, this book provides a summary of two types of popular technologies,

the fundamental tools on single-cell isolation, and the developments of single cell multi-omics, followed by descriptions of FISH technologies, though other popular technologies are not covered here due to the fact that they are intensively described here and there recently. Finally, the book illustrates an elastomer-based integrated fluidic circuit that allows a connection between single cell functional studies combining stimulation, response, imaging and measurement, and corresponding single cell sequencing. This is a model system for single cell functional genomics. In addition, it reports a pipeline for single-cell proteomics with an analysis of the early development of Xenopus embryo, a single-cell qRT-PCR application that defined the subpopulations related to cell cycling, and a new method for synergistic assembly of single cell genome with sequencing of amplification product by phi29 DNA polymerase. Due to the tremendous progresses of single-cell omics in recent years, the topics covered here are incomplete, but each individual topic is excellently addressed, significantly interesting and beneficial to scientists working in or affiliated with this field.

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Drug-drug interactions (DDIs) cause a drug to affect other drugs, leading to reduced drug efficacy or increased toxicity of the affected drug. Some well-known interactions are known to be the cause of adverse drug reactions (ADRs) that are life threatening to the patient. Traditionally, DDI have been evaluated around the selective action of drugs on specific CYP enzymes. The interaction of drugs with CYP remains very important in drug interactions but, recently, other important mechanisms have also been studied as contributing to drug interaction including transport- or UDP-glucuronyltransferase as a

Phase II reaction-mediated DDI. In addition, novel mechanisms of regulating DDIs can also be suggested. In the case of the substance targeted for interaction, not only the DDIs but also the herb-drug or food-drug interactions have been reported to be clinically relevant in terms of adverse side effects. Reporting examples of drug interactions on a marketed drug or studies on new mechanisms will be very helpful for preventing the side effects of the patient taking these drugs. This Special Issue aims to highlight current progress in understanding both the clinical and nonclinical interactions of commercial drugs and the elucidation of the mechanisms of drug interactions.

This volume focuses on protein analysis, including a wide range of the use of mass spectrometry and other protein methods within neurobiological disciplines. Chapters cover topics such as cerebrospinal fluid (CSF) processing and biobanking; label-free quantitative proteomics; SWATH; top-down proteomics; and experimental strategies based on other -omics applied to CSF metabolome, lipidome, and microRNAome. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and thorough, Cerebrospinal Fluid (CSF) Proteomics: Methods and Protocols is a valuable resource for graduate students and post-doctoral fellows interested in learning more about CSF proteotyping. It is also useful to established researchers seeking further insight into this growing field.

Langley defined the autonomic nervous system as an efferent system. He divided it into the orthosympathetic and the parasympathetic.

The second edition of OCT and Imaging in Central Nervous System Diseases offers updated state-of-the-art advances using optical coherence tomography (OCT) regrading neuronal loss within the retina. Detailed information on the OCT imaging and interpretation is provided for the evaluation of disease progression in numerous neurodegenerative disorders and as a biological marker of neuroaxonal injury. Covering disorders like multiple sclerosis, Parkinson's disease, Alzheimer's disease, intracranial hypertension, Friedreich's ataxia, schizophrenia, hereditary optic neuropathies, glaucoma, and amblyopia, readers will given insights into effects on the retina and the and optic nerve. Individual chapters are also devoted to OCT technique, new OCT technology in neuro-ophthalmology, OCT and pharmacological treatment, and the use of OCT in animal models. Similar to the first edition, this book is an excellent and richly illustrated reference for diagnosis of many retinal diseases and monitoring of surgical and medical treatment. OCT allows to study vision from of the retina to the optic tracts. Retinal axons in the retinal nerve fiber layer (RNFL) are non-myelinated until they penetrate the lamina cribrosa. Hence, the RNFL is an ideal structure for visualization of any process of neurodegeneration, neuroprotection, or regeneration. By documenting the ability of OCT to provide key information on CNS diseases, this book illustrates convincingly that the eye is indeed the "window to the brain".

Virtual and Collaborative Teams is of importance to practitioners and researchers because it brings together in a single accessible source, a variety of current research and practice on the subject of virtual and collaborative teams. Geographic distance, technology, lack of social presence, lack of adequate training and lack of instructional resources are just some of the unique challenges faced by virtual teams. This book is a unique resource in that it provides a variety of research and practice from a wide range of disciplines, nationally and internationally. The essays blends theory and practice, encompassing quantitative and qualitative research, case studies, interview research and theoretical models.

Alzheimer's disease (AD) represents the most common form of dementia in the elderly population worldwide. AD is characterized by progressive neurodegeneration that leads to a gradual deterioration of memory and other cognitive functions. Given the global prevalence and impact of AD, there is a critical need to establish biomarkers that can be used to detect AD in individuals before the onset of clinical signs and provide mitigating therapeutics. The aim of this Special Issue is to discuss the current knowledge as well as future perspectives on the role of biomarkers in the screening, diagnosis, treatment and follow-up of AD.

The most complete guide of its kind, this is the standard handbook for chemical and process engineers. All new material on fluid flow, long pipe, fractionators, separators and accumulators, cooling towers, gas treating, blending, troubleshooting field cases, gas solubility, and density of irregular solids. This substantial addition of material will also include conversion tables and a new appendix, "Shortcut Equipment Design Methods."This convenient volume helps solve field engineering problems

with its hundreds of common sense techniques, shortcuts, and calculations. Here, in a compact, easy-to-use format, are practical tips, handy formulas, correlations, curves, charts, tables, and shortcut methods that will save engineers valuable time and effort. Hundreds of common sense techniques and calculations help users quickly and accurately solve day-to-day design, operations, and equipment problems. Cell biology is a multidisciplinary scientific field that its modern expansion in new knowledge and applications owes to important support of new technologies with the rapid development, such as ICTs. By integrating knowledge from nano-, molecular, micro-, and macroareas, it represents a strong foundation for almost all biological sciences and disciplines, as well as for biomedical research and application. This book is a compilation of inspiring reviews/original studies, which are divided into sections: New Methods in Cell Biology, Molecular and Cellular Regulatory Mechanisms, and Cellular Basis of Disease and Therapy. The book will be very useful for students and beginners to gain insight into new area, as well as for experts and scientists to find new facts and expand their scientific horizons through biological sciences and biomedicine.

This volume provides a comprehensive overview for investigating biology at the level of individual cells. Chapters are organized into eight parts detailing a single-cell lab, single cell DNA-seq, RNA-seq, single cell proteomic and epigenetic, single cell multi-omics, single cell screening, and single cell live imaging. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, stepby-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Single Cell Methods: Sequencing and Proteomics aims to make each experiment easily reproducible in every lab.

There is a need to improve care at the interface of general medicine and mental health. Provision of care at this interface is the aim of integrated care. Integrated care occurs when mental health specialty and general medical care providers work together to address both the physical and mental health needs of their patients. This comprehensive systematic review addresses the evidence for integration of mental health services into primary care settings and primary services into specialty outpatient settings. The research questions were: 1) What models of integration have

been used? a) What theoretical models support these programs? b) What is the evidence that integrated care leads to better outcomes? 2) To what extent does the impact of integrated care programs on outcomes vary for different populations (e.g., specific mental illness conditions, chronically ill, racial/ethnic groups, elderly/youth)? 3) What are the identified barriers to successful integration? a) How were barriers overcome? b) What are the barriers to sustainability? 4) To what extent did successful integration programs make use of health information technology (IT)? 5) What financial and/or reimbursement structure was employed in successful integration programs? Is there evidence to suggest that any specific financial/reimbursement strategy is superior to another? 6) What are the key elements of programs that have been successfully implemented and sustained in large health systems? To what extent do they follow, or how do they differ from, models that have been studied in published research studies? The scope of the review included alcohol addiction but not other forms of substance abuse. Inpatient settings are also excluded. The review focuses on four areas: (1) specifying what integration is (and is not); (2) detailing the process through which integrated care may affect clinical outcomes; (3) expanding beyond the scope of prior reviews to include multiple illnesses and patient populations; and (4) specifying the conditions under which various models of integrated care are likely (or unlikely) to work in 'real-world' settings. This review also conducted case studies in order to better understand the implementation of integrated care models.

Sidescan sonar is proving to be the preeminent technique for researchers and professionals seeking knowledge about the structure and behavior of the seafloor, but its data is often difficult to interpret due to the physics of acoustic remote sensing, and to the varied geological processes at play. This book covers the fundamentals of sidescan sonar, incorporates new understanding of marine structures, and explains how to interpret sidescan sonar imagery and bathymetry.

Plants have served mankind as an important source of foods and medicines. While we all consume plants and their products for nutritional support, a majority of the world population also rely on botanical remedies to meet their health needs, either as their own "traditional medicine" or as "complementary and alternative medicine". From a pharmaceutical point of view, many compounds obtained from plant sources have long been known to possess bio/pharmacological activities,

and historically, plants have yielded many important drugs for human use, from morphine discovered in the early nineteenth century to the more recent paclitaxel and artemisinin. Today, we are witnessing a global resurgence in interest and use of plant-based therapies and botanical products, and natural products remain an important and viable source of lead compounds in many drug discovery programs. This Special Issue on "Plant Natural Products for Human Health" compiles a series of scientific reports to demonstrate the medicinal potentials of plant natural products. It covers a range of disease targets, such as diabetes, inflammation, cancer, neurological disease, cardiovascular disease, liver damage, bacterial, and fungus infection and malarial. These papers provide important insights into the current state of research on drug discovery and new techniques. It is hoped that this Special Issue will serve as a timely reference for researchers and scholars who are interested in the discovery of potentially useful molecules from plant sources for health-related applications.

Seco ndary Ion Mass Spectrometry Basic Concepts, Instrumental Aspects, Applications and Trends (Volume 86 in Chemical

Analysis: A Series of Monographs on Analytical Chemistry and Its Applications) A. Benninghoven, F. G. Rüdenauer, and H. W. Werner "[This book] is (and probably will be for a long time ahead) the standard book on secondary ion mass spectrometry." —Trends in Analytical Chemistry "This is a monumental work, and contains nearly 600 illustrations and over 2,000 references covering nearly all the essential published information up to 1985. The book will certainly find its place as a reference work in most laboratories using this methodology" -Analytica Chimica Acta 1987 (0 471-01056-1) 1,227 pp. Secondary Ion Mass Spectrometry Proceedings of the Sixth International Conference on Secondary Ion Mass Spectrometry (SIMS VI) Edited by A. Benninghoven, A.M. Huber, and H. W. Werner "The international SIMS conferences have been held every two years since 1977. They are recognized as one of the major forums for scientists, instrument manufacturers, and other researchers actively engaged in this rapidly expanding field...this volume is a valuable account of the latest advances in the field of SIMS, and of the research trends of some of the most respected experts in the field....it is recommended for the libraries

of all academic and industrial institutions where SIMS research is ongoing....it should prove a valuable reference source for years to come." —Applied Spectroscopy 1988 (0 471-91832-6) 1,078 pp.

Alzheimer Disease represents an important area of research in neurobiology, cell biology, developmental biology and pathology. Understanding the nature of the changes that occur in neurons as the disease progresses — accumulation of amyloid beta and neurofibrillary tangles — is obviously important as we try to develop therapeutic approaches. Moreover, the normal physiological roles of proteins such as APP and tau, whose processing appears to be altered in Alzheimer Disease, is also an intense area of research.

Features patient information on temporomandibular joint (TMJ) disorders, provided by the University of Illinois McKinley Health Center. Discusses how the chewing muscles and jaw joints operate, and the signs, symptoms, causes, and treatment of TMI disorders.

This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.