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## **The Structure and Conformation of Amphiphilic Membranes-**

Reinhard Lipowsky  
2013-03-08 Membranes composed of amphiphilic molecules are highly flexible surfaces that determine the architecture of biological systems and provide a basic structural element for complex fluids such as microemulsions. Recently, a variety of new experimental

methods such as X-ray scattering, neutron scattering, and atomic force microscopy have been used in order to study themolecular structure of these membranes. Their conformational behavior, on the other hand, is studied by optical and electron microscopy, which reveals that membranes in aqueous solution exhibit an amazing variety of different shapes. Several theoretical concepts are described suchas bending elasticity, curvature, and minimal surfaces in order to understand this

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polymorphism. These concepts are also useful to describe the behavior of membranes in complex fluids where they can build up hexagonal, lamellar, triply-periodic, cubic, and sponge phases. The contributions to this volume provide an up-to-date overview and describe the state-of-the-art of this rapidly evolving field of research.

### **Pharmaceuticals in the Environment**

Klaus Kümmerer 2008-10-10

Following the success of the first edition, this pioneering study of pharmaceuticals in the environment has been updated and greatly extended. It includes the status of research on pharmaceuticals in soil, with attention to terrestrial and aquatic environments as well as new substance categories such as tetracyclines and chinolones and the latest results concerning contamination of the environment and risk reduction.

### **Advances in Enzyme**

**Biotechnology**-Pratyoo Shukla 2013-08-13 Enzyme Technology is one of the most promising disciplines in modern biotechnology. In this book, the applications of a wide variety of enzymes are highlighted. Current studies in enzyme technology are focused towards the discovery of novel enzymes (termed "bio-discovery" or "bio-prospecting") and the identification and elucidation of novel pathways of these novel enzymes with emphasis on their industrial relevance. With the development of molecular techniques and other bioinformatics tools, the time to integrate this subject with other fields in the life sciences has arrived. A rapid expansion of the knowledge base in the field of enzyme biotechnology has occurred over the past few years. Much of this expansion has been driven by the bio-discovery of many new enzymes from a wide range of environments, some extreme in nature, followed by subsequent protein (enzyme) engineering. These enzymes have found a wide range of applications, ranging from bioremediation, bio-monitoring, biosensor

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development, bioconversion to biofuels and other biotechnologically important value-added products.

Hydrolases constitute a major component of the global annual revenue generated by industrial enzymes and the emphasis has therefore been placed on these enzymes and their applications. With the immense interest of researchers active in this area, this book will serve to provide information on current aspects in this field of study. In the current edition, the contributions of many diversified topics towards establishing new directions of research in the area of enzyme biotechnology are described. This book serves to provide a unique source of information to undergraduates, post graduates and doctoral courses in microbiology and biotechnology along with allied life sciences. The present edition of the book covers all important areas of enzyme biotechnology i.e. the wide variety of enzymes in the field of enzyme biotechnology and their industrial applications, new methods and state-of-the-art

information on modern methods of enzyme discovery. This book will act as good resource on most of the current facets of enzyme technology for all students engaged in bioengineering and biotechnology.

### **Eurasian Business**

#### **Perspectives-Mehmet**

Huseyin Bilgin 2019-04-03

This volume of Eurasian Studies in Business and Economics includes selected papers from the 22nd Eurasia Business and Economics Society (EBES) Conference in Rome. It presents original empirical research from several countries and regions including many developing economies such as Poland, Russia, Tunisia, Lebanon, Belarus, and Lithuania. Both the theoretical and empirical papers in this volume cover diverse areas of business and management from various regions. The main focus is on sharing the latest research results on evolving approaches to entrepreneurship research, behavioral aspects of entrepreneurship and SME development, and policy

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development. The volume also includes related studies that analyze international business cooperation, performance assessment, and a range of other current topics.

### **Chemistry and Radiation Changes in the Ozone Layer**

**Christos S. Zerefos**  
2000-12-31 Recent studies have demonstrated a link between ozone changes caused by human activities and changing UV levels at the Earth's surface, as well as a link to climate through changes in radiative forcing and links to changes in chemical composition. This book draws together key scientists who provide state of the art contributions on the variable ozone layer and the interplay of longwave and shortwave radiative interactions which link ozone, the climate and UV issues.

### **Plant Molecular Biology Manual**

**Stanton Gelvin**  
2012-12-06 Five years ago, the first edition of the Plant Molecular Biology Manual appeared. At that time, the

editors felt that the field of plant molecular biology had matured to a point that the publication of a series of protocols in plant molecular biology was warranted. During the past five years, the field of plant molecular biology has expanded rapidly. This expansion is, among other things, reflected by the presence of several journals in the plant sciences, as well as by the increasing amount of plant sciences articles that are published in the more general journals. In 1991 approximately 3000 people attended the Third International Congress of Plant Molecular Biology in Tucson, Arizona, where more than 2000 posters were presented. It is also remarkable to see that nowadays botanical and physiological meetings pay a considerable amount of attention to plant molecular biology. Since the first edition of this manual appeared, we have published, yearly, a series of supplements to the original volume. These supplements covered new subjects and described new methods that had been developed. With time,

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however, the editors realized that the original manual plus supplements had become cumbersome to use, and we decided to publish a reorganized version of the manual.

### **Literature, Politics and Culture in Postwar Britain-**

Alan Sinfield 2007-03-15  
Literature, Politics and Culture in Postwar Britain is a landmark work in contemporary literary and cultural analysis. It offers a provocative and brilliant account of political change since 1945 and how such change shaped the cultural output of our time. It also looks at how and when literature intersects with other cultural forms - including jazz and rock music, television, journalism, commercial and "mass" cultures - and the growth of American cultural dominance. This edition includes a new foreword by the author.

**Handbook of Offshore Oil and Gas Operations-**James G. Speight 2014-10-22

Handbook of Offshore Oil and Gas Operations is an authoritative source providing extensive up-to-date coverage of the technology used in the exploration, drilling, production, and operations in an offshore setting. Offshore oil and gas activity is growing at an expansive rate and this must-have training guide covers the full spectrum including geology, types of platforms, exploration methods, production and enhanced recovery methods, pipelines, and environmental management and impact, specifically worldwide advances in study, control, and prevention of the industry's impact on the marine environment and its living resources. In addition, this book provides a go-to glossary for quick reference. Handbook of Offshore Oil and Gas Operations empowers oil and gas engineers and managers to understand and capture on one of the fastest growing markets in the energy sector today. Quickly become familiar with the oil and gas offshore industry, including deepwater operations Understand the full spectrum of the business,

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including environmental impacts and future challenges  
Gain knowledge and exposure on critical standards and real-world case studies

### **Hyperbaric Oxygen**

**Therapy Indications**-Linda Ed Weaver 2014-04-01 The Undersea and Hyperbaric Medical Society (UHMS) is an international, non-profit organization serving over 2,400 members from more than 50 countries. The UHMS is the primary source of scientific information for diving and hyperbaric medicine physiology worldwide, the breadth of which is illustrated in the triennial report, Hyperbaric Oxygen Therapy Indications. With leading experts authoring chapters in their respective fields, this publication continues to provide the most current and up to date guidance and support for scientists and practitioners of hyperbaric oxygen therapy. Hyperbaric Oxygen Therapy Indications, currently in its thirteenth edition, has grown in size and depth to reflect the evolution of the literature on the

approved use of hyperbarics from both a clinical practice standpoint and insurance coverage perspective. To date, the committee recognizes fourteen indications, including the new indication, idiopathic sudden sensorineural hearing loss. Additionally, this book continues to be used by the Centers for Medicare and Medicaid Services and other third party insurance carriers in determining payment for HBO2 services.

### **Microorganisms in**

**Biorefineries**-Birgit Kamm 2014-11-27 The book describes how plant biomass can be used as renewable feedstock for producing and further processing various products. Particular attention is given to microbial processes both for the digestion of biomass and the synthesis of platform chemicals, biofuels and secondary products. Topics covered include: new metabolic pathways of microbes living on green plants and in silage; using lignocellulosic hydrolysates for the production of

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polyhydroxyalkanoates; fungi such as *Penicillium* as host for the production of heterologous proteins and enzymes; bioconversion of sugar hydrolysates into lipids; production of succinic acid, lactones, lactic acid and organic lactates using different bacteria species; cellulose hydrolyzing bacteria in the production of biogas from plant biomass; and isoprenoid compounds in engineered microbes.

### **The Science of Effective Mentorship in STEMM-**

National Academies of Sciences, Engineering, and Medicine 2020-01-24 Mentorship is a catalyst capable of unleashing one's potential for discovery, curiosity, and participation in STEMM and subsequently improving the training environment in which that STEMM potential is fostered. Mentoring relationships provide developmental spaces in which students' STEMM skills are honed and pathways into STEMM fields can be discovered. Because mentorship can be so influential in shaping the

future STEMM workforce, its occurrence should not be left to chance or idiosyncratic implementation. There is a gap between what we know about effective mentoring and how it is practiced in higher education. The Science of Effective Mentorship in STEMM studies mentoring programs and practices at the undergraduate and graduate levels. It explores the importance of mentorship, the science of mentoring relationships, mentorship of underrepresented students in STEMM, mentorship structures and behaviors, and institutional cultures that support mentorship. This report and its complementary interactive guide present insights on effective programs and practices that can be adopted and adapted by institutions, departments, and individual faculty members.

### **The Greater OMENTUM-D.**

Liebermann-Meffert 2012-12-06 Since RUTHERFORD MORISON left us with the concept of the Omentum being the 'abdominal policeman', clinicians have tacitly

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assumed that they know sufficient about the structure and function of this organ. However interest in the omentum and its relationship to clinical surgery has recently been developing. This book examines all aspects with special reference to surgery and should provide a welcome impetus in research and clinical practice. The editors and contributors have produced a book which is comprehensive and well illustrated and contains detailed references to the important original sources - so essential in a work of this nature. It is written for those who wish to share the delight of acquiring knowledge - even about a comparatively humble organ - as well as for practical surgeons. Both will find ample information to arouse their interest and expand their surgical horizons in exciting ways of which they will almost certainly not have dreamt. I welcome a book of this calibre on a subject which deserves our increasing interest. I delight in the fact that it is dedicated to my friend and colleague MARTIN ALLGOWER.

### **Promoting Positive Youth Development**-Edmond P.

Bowers 2015-07-13 This book presents the results of the longitudinal 4-H Study of Positive Youth Development. The volume discusses how self-regulation and contextual resources (e.g., strong relationships with parents, peers, and the community) can be fostered in young people to contribute to the enhancement of functioning throughout life. Each chapter examines a particular aspect of youth thriving, and offers findings on either the bases or the role of positive development in a variety of outcomes, from reduced risk of emotional problems and harmful behaviors to increased participation in the community. Contributors introduce a contemporary model of positive development for diverse youth, provide examples of effective youth development programs, and suggest applications for informing the next generation of policies and practices. Among the featured topics: The regulation of emotion in adolescence. School engagement, academic

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achievement, and positive youth development. Peer relationships and positive youth development. Identity development in adolescence and the implications for youth policy and practice.

Promoting adolescent sexual health in youth programming.

A positive youth development approach to bullying.

Researchers in developmental psychology as well as practitioners in educational or youth development programs or policies will gain from

Promoting Positive Youth Development a new

appreciation of the central role of young people's strengths, and initiatives to build effective youth

programs. "This volume is destined to become the handbook for anyone

interested in the burgeoning field of positive youth development. Based on

ground breaking, longitudinal research from top researchers in the field, Promoting

Healthy Development for America's Youth presents a rich, theoretically grounded

understanding of the landscape today's youth and programs. The contributors

provide clear, data-driven

guidance regarding the types of programs and settings that are most beneficial to young people." Jean E. Rhodes, Ph.D. Frank L. Boyden Professor Department of Psychology University of Massachusetts, Boston

### **Oppositional Defiant Disorder and Conduct Disorder in Childhood-**

Walter Matthys 2017-01-30

Newly updated, this is a comprehensive guide to ODD and conduct disorder (CD) in children aged 3-14 for

professionals, students, and researchers. Summarizes the most important empirical

knowledge across a broad array of topics, with a focus on the latest research and

meta-analyses, as well as high-quality older studies

Includes revised diagnostic conceptualizations for ODD and CD from DSM-V and the

upcoming ICD-11 classification systems, with

particular attention to similarities, differences, and information about an angry-irritable subtype for ODD

Provides updated reviews of biological and social-cognitive

risk and protective factors and the evidence base for relevant treatment and prevention procedures  
Describes best practices for assessment, treatment, and prevention for children and their families, based on the clinical and research work of the well-respected author team

**Drug Abuse Handbook, Second Edition**-Steven B. Karch, MD, FFFLM  
2006-12-21 Following the well-received first edition, the Drug Abuse Handbook, Second Edition is a thorough compendium of the knowledge of the pharmacological, medical, and legal aspects of drugs. The book examines criminalistics, pathology, pharmacokinetics, neurochemistry, treatment, as well as drugs and drug testing in the workplace and in sports, and the ethical, legal, and practical issues involved. Dr. Karch gathers contributions from 80 leading experts in their respective fields to update and revise this second edition with more than 40 percent new material. New topics include genetic

testing in drug death investigation, the neurochemistry of nicotine and designer amphetamines, genetic doping in sports, and the implications of the Daubert ruling on the admissibility of scientific evidence in federal court. Packed with the latest information in an easily accessible format, the book includes tables of all Scheduled Drugs, methods of Drug Quantitative Analysis, and a glossary of forensic toxicology terms. Vivid pictures and diagrams illustrate the pathological effects of drugs and the chemical make-up and breakdown of abused drugs. It includes more than 6000 references to the best sources in medicine, pharmacology, and the law. This book addresses specific problems in drug testing, drug-related medical emergencies, and the physical, neurochemical, and sociological phenomenon of addiction. With unparalleled detail and the highest level of authoritative information, The Drug Abuse Handbook, Second Edition is the definitive resource for drug related issues.

## **Contemporary Oral**

### **Oncology**-Moni Abraham

Kuriakose 2017-08-07 This is the third of four volumes that together offer an authoritative, in-depth reference guide covering all aspects of the management of oral cancer from a multidisciplinary perspective and on the basis of a strong scientific foundation. This volume is devoted to the reconstructive surgical techniques used in patients with oral cancer. Following introductory chapters outlining the general principles of reconstructive surgery in the oral cavity and the planning of maxillofacial reconstruction, detailed descriptions of the options and techniques employed in reconstruction of each of the functional subunits are provided. Important technologic advances are also discussed, including image-guided surgery, robotic surgery, and tissue-engineered and prefabricated approaches. Finally, the current status of facial transplantation for maxillofacial reconstruction is

reviewed. This volume is intended for both trainees and practicing surgeons. Overview on all volumes: Volume 1: Biology, Epidemiology, Etiology, and Prevention Volume 2: Diagnosis and Management Volume 3: Oral and Maxillofacial Reconstructive Surgery Volume 4: Rehabilitation and Supportive Care

### **Worker Centers**-Janice Ruth

Fine 2006 As national policy is debated, a locally based grassroots movement is taking the initiative to assist millions of immigrants in the American workforce facing poor pay, bad working conditions, and few prospects to advance to better jobs. Fine takes a comprehensive look at the rising phenomenon of worker centers, fast-growing institutions that improve the lives of immigrant workers through service advocacy and organizing.—from publisher information.

### **Treatment of Micropollutants in Water and Wastewater**-Jurate

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Virkutyte 2010 Treatment of Micropollutants in Water and Wastewater

### **Cancer Metabolomics**

**2018**-Paula Guedes De Pinho  
2019-09-03 The metabolomics approach, defined as the study of all endogenously-produced low-molecular-weight compounds, appeared as a promising strategy to define new cancer biomarkers. Information obtained from metabolomic data can help to highlight disrupted cellular pathways and, consequently, contribute to the development of new-targeted therapies and the optimization of therapeutics. Therefore, metabolomic research may be more clinically translatable than other omics approaches, since metabolites are closely related to the phenotype and the metabolome is sensitive to many factors. Metabolomics seems promising to identify key metabolic pathways characterizing features of pathological and physiological states. Thus, knowing that tumor metabolism markedly differs from the metabolism of normal cells, the use of

metabolomics is ideally suited for biomarker research. Some works have already focused on the application of metabolomic approaches to different cancers, namely lung, breast and liver, using urine, exhaled breath and blood. In this Special Issue we contribute to a more complete understanding of cancer disease using metabolomics approaches.

### **William Wallace and**

**Robert the Bruce**-Charles River Charles River Editors  
2017-01-26 \*Includes pictures  
\*Includes accounts of the major battles of the Scottish Wars of Independence  
\*Includes online resources and a bibliography for further reading \*Includes a table of contents "A false usurper sinks in every foe And liberty returns with every blow." - Blind Harry From their very beginnings, England and Scotland fought each other. Emerging as unified nations from the early medieval period, their shared border and inter-related aristocracy created endless causes of conflict, from local raiders known as border reivers to

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full blown wars between their monarchies. Every century from the 11th to the 16th was colored by such violence, and there were periods when not a decade went by without some act of violence marring the peace. Out of all of this, the most bitterly remembered conflict is Edward I's invasion during the late 13th century. After Edward's death, the English were eventually beaten back at the famous Battle of Bannockburn in 1314, and thus the early 14th century was a period featuring some of Scotland's greatest national heroes, including William Wallace and Robert the Bruce. It still resonates in the Scottish national memory, all the more so following its memorable but wildly inaccurate depiction in the 1995 film *Braveheart*, which had Scottish audiences cheering in cinemas. William Wallace is one of the most famous freedom fighters in history, and over 700 years after his death he is still remembered as Scotland's beloved hero. But while the movie *Braveheart* helped make him a household name, and he is commemorated across

Scotland as a natural leader and a loyal son of his homeland, he is also "the most mysterious of the leaders of the Scottish resistance to Edward I." This is because, paradoxically, the very famous soldier is also one of the least well known. In fact, the mystery surrounding Wallace is figuring out precisely, or even vaguely, who he was. Where did this champion of Scottish independence come from? Who was his family? What did he do before emerging from obscurity with the brutal murder of William Heselrig, the English sheriff of Lanark, in May 1297? So little evidence on Wallace's life exists that answering even the most basic questions about him can be a challenge. Piecing together the story of William Wallace's life is an exercise in asking more questions than can be answered, and often in looking at just as much conjecture as proof. This book attempts to separate fact from fiction while looking at the life and fighting of the man who inspired *Braveheart*. Though it's often forgotten today, Robert the Bruce was a bit shiftier, if only out of

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necessity. Robert the Bruce has become a figure of Scottish national legend, renowned as the man who threw off the shackles of English oppression, but prior to 1306, this Anglo-Scottish nobleman did little to cover himself in glory or to earn a reputation as a hero of the national cause. A member of one of Scotland's leading noble families, Bruce inherited his grandfather's claim to the right to be King of the Scots. That older Bruce had been one of the two leading competitors in the Great Cause, and the family still held ambitions toward the throne. They also held resentments dating back to that disputed inheritance against the Balliol clan and their supporters the Comyns. Of course, this was all forgiven and forgotten after Bannockburn and Bruce's rise to the Scottish throne, which he held for over two decades. This book analyzes the lives of William Wallace and Robert the Bruce. Along with pictures of important people, places, and events, you will learn about the two Scottish heroes like never before.

**Topiltzin Quetzalcoatl-**  
Henry B. Nicholson 2001 In Topiltzin Quetzalcoatl, H.B. Nicholson presents the most comprehensive survey and discussion of the primary sources and relevant archaeological evidence concerning this man/god, the most enigmatic figure of ancient Mesoamerica. Long available only on university microfilm, this classic text has been updated and now includes new illustrations and an index. Nicholson sorts through the wealth of material, classifying, summarizing, and analyzing all known primary accounts in the Spanish, Nahuatl, and Mayan languages of the career of Topiltzin Quetzalcoatl. In a new Introduction, he updates the original source material presently available to scholars concerned with this figure.

**On Sexuality and Power-**  
Alan Sinfield 2004-12-22 It is widely supposed that the most suitable partner will be someone very much like oneself; gay fiction and cinema are often organized

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around this assumption. Nonetheless, power differentials are remarkably persistent—as well as sexy. What are the personal and political implications of this insight? Sinfield argues that hierarchies in interpersonal relations are continuous with the main power differentials of our social and political life (gender, class, age, and race); therefore it is not surprising that they govern our psychic lives. Recent writing enables an exploration of their positive potential, especially in fantasy, as well as their danger. *On Sexuality and Power* focuses on the writing of the last thirty years, revisiting also Whitman, Wilde, Mann, Forster, and Genet, and reassessing the very idea of a gay canon.

**Modeling the Psychopathological Dimensions of Schizophrenia**-Mikhail Pletnikov 2015-11-05  
Modeling the Psychopathological Dimensions of Schizophrenia: From Molecules to Behavior is the first book to offer a

comprehensive review of the new theoretical, clinical, and basic research framework that considers psychotic illness as a group of dimensional representations of psychopathology rather than as traditional distinct categorical diagnoses. Psychotic illness, typified by schizophrenia, is a devastating condition increasingly recognized as a disorder of abnormal brain development and dysconnectivity. Its complex etiology involves both genetic and environmental factors, as well as the interplay among them. This book describes the current understanding of the clinical and pathological features of schizophrenia, with a particular focus on the evolving conceptualization of schizophrenia and related diagnostic categories of psychotic illness as combinations of dimensional abnormalities. It provides an overview of modern strategies for generating cellular and whole animal models of schizophrenia as well as detailed reviews of the specific experimental preparations and paradigms aimed at molecular,

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developmental, and brain-network mechanisms that are the underlying aspects of abnormal behavior and various aspects of schizophrenia. This groundbreaking book is an authoritative overview of the translational impact of emerging clinical insights on basic research approaches in schizophrenia that will advance the reader's understanding of the five major dimensions of psychopathology in schizophrenia and related psychoses and resolve the genetic and neurobiological underpinnings of these dimensions. Includes reviews of animal models that capture the most recent insights into the etiology and pathogenetic mechanisms of schizophrenia, with an emphasis on the translational potential of these models Contains a series of reviews of recently available cellular models for analysis of signaling pathways and gene expression, which complement behavioral neuroscience research in schizophrenia Edited and authored by leading researchers in the field of schizophrenia and related

psychoses

### **Pharmacokinetics and Toxicokinetics-Mehdi**

Boroujerdi 2015-02-24

Pharmacokinetics and Toxicokinetics provides an overview of pharmacokinetics and toxicokinetics in a comprehensible, interrelated, and applied manner. It integrates the principles held in common by both fields through a logical and systematic approach. The book presents mathematical descriptions of physiological processes employed in different approaches to PK/TK modeling. It focuses on emphasizing general principles and concepts, rather than isolated observations. Above all, the book is an effort to blend the pharmaceutical and toxicological aspects of both fields. The systematic compilation of mathematical concepts and methodologies allows readers to decide on relevant concepts and approaches for their research, scientific or regulatory decisions, or for offering advance courses and seminars. This is an

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invaluable resource for scientists in the pharmaceutical sciences, clinical sciences, and environmental health sciences, as well as those involved in drug discovery and development.

### **Investing in Climate, Investing in Growth-OECD**

2017-05-23 This report provides an assessment of how governments can generate inclusive economic growth in the short term, while making progress towards climate goals to secure sustainable long-term growth. It describes the development pathways required to meet the Paris Agreement objectives.

### **Alternative Respiratory Pathways in Higher Plants-**

Kapuganti Jagadis Gupta  
2015-06-15 Rapid developments in molecular and systems biology techniques have allowed researchers to unravel many new mechanisms through which plant cells switch over to alternative respiratory

pathways. This book is a unique compendium of how and why higher plants evolved alternative respiratory metabolism. It offers a comprehensive review of current research in the biochemistry, physiology, classification and regulation of plant alternative respiratory pathways, from alternative oxidase diversity to functional marker development. The resource provides a broad range of perspectives on the applications of plant respiratory physiology, and suggests brand new areas of research. Other key features: written by an international team of reputed plant physiologists, known for their pioneering contributions to the knowledge of regular and alternative respiratory metabolism in higher plants includes step-by-step protocols for key molecular and imaging techniques advises on regulatory options for managing crop yields, food quality and environment for crop improvement and enhanced food security covers special pathways which are of key relevance in agriculture, particularly in plant post-

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harvest commodities Primarily for plant physiologists and plant biologists, this authoritative compendium will also be of great value to postdoctoral researchers working on plant respiration, as well as to graduate and postgraduate students and university staff in Plant Science. It is a useful resource for corporate and private firms involved in developing functional markers for breeding programs and controlling respiration for the prevention of post-harvest losses in fruit, vegetables, cut flowers and tubers.

**Ocean Biogeochemistry-**  
Michael J.R. Fasham  
2012-12-06 Oceans account for 50% of the anthropogenic CO<sub>2</sub> released into the atmosphere. During the past 15 years an international programme, the Joint Global Ocean Flux Study (JGOFS), has been studying the ocean carbon cycle to quantify and model the biological and physical processes whereby CO<sub>2</sub> is pumped from the ocean's surface to the depths of the ocean, where it can remain for hundreds of years.

This project is one of the largest multi-disciplinary studies of the oceans ever carried out and this book synthesises the results. It covers all aspects of the topic ranging from air-sea exchange with CO<sub>2</sub>, the role of physical mixing, the uptake of CO<sub>2</sub> by marine algae, the fluxes of carbon and nitrogen through the marine food chain to the subsequent export of carbon to the depths of the ocean. Special emphasis is laid on predicting future climatic change.

**New Trends in Image Analysis and Processing -- ICIAP 2015 Workshops-**  
Vittorio Murino 2015-08-20  
This book constitutes the refereed proceedings of seven workshops held at the 18th International Conference on Image Analysis and Processing, ICIAP 2015, in Genoa, Italy, in September 2015: International Workshop on Recent Advances in Digital Security: Biometrics and Forensics, BioFor 2015; International Workshop on Color in Texture and Material Recognition, CTMR 2015;

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International Workshop on Medical Imaging in Rheumatology: Advanced applications for the analysis of inflammation and damage in the rheumatoid Joint, RHEUMA 2015; International Workshop on Image-Based Smart City Application, ISCA 2015; International Workshop on Multimedia Assisted Dietary Management, MADiMa 2015; International Workshop on Scene Background Modeling and initialization, SBMI 2015; and International Workshop on Image and Video Processing for Quality of Multimedia Experience, QoEM 2015.

### **Intervention Research-**

Bernadette Mazurek Melnyk, PhD, RN, CPNP/ PMHNP, FNAP, FAAN 2012-04-23 2012 First Place AJN Book of the Year Award Winner in Nursing Research! "This is a resource for success and should be a part of any researcher's library."--Doody's Medical Reviews This book is a practical, user-friendly guide for health care researchers across multiple disciplines who are involved in intervention research. It

provides all of the essential elements needed for understanding how to design, conduct, analyze, and fund intervention studies that are replicable and can withstand the scrutiny of the Institutional Review Board and peer review. Developed from an annual continuing education workshop on intervention studies conducted by Dr. Melnyk, this text is the most comprehensive body of information available on this topic. Contributors address the design of interventions that are ethically considerate and sensitive to culture, race/ethnicity, and gender, minimizing threats to external and internal validity, measurement, and budgeting. The guide explores such implementation issues as subject recruitment and retention, data management, and specialized settings, cost analysis, and explaining intervention effects. The text also guides readers in writing grant applications that fund , and addresses how to move intervention study findings into the real world. A unique addition to the book is the availability of digital examples

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of progress reports, final reports, and research grant applications that have received funding from the National Institutes of Health and other relevant organizations. This text is a valuable resource for all health care professionals conducting research and for doctoral students in health care studies. Key Features: Presents the essential tools for designing, conducting, analyzing, and funding intervention studies Designed for use by health care professionals conducting intervention research Provides comprehensive, accessible guidelines for doctoral students across all health care disciplines Instructs readers on writing grant applications that fund Includes digital examples of funded research grants, progress reports, and final reports

**Thermal Ice Drilling Technology**-Pavel G. Talalay  
2019-09-10 This book provides a review of thermal ice drilling technologies, including the design, parameters, and performance

of various tools and drills for making holes in ice sheets, ice caps, mountain glaciers, ice shelves, and sea ice. In recent years, interest in thermal drilling technology has increased as a result of subglacial lake explorations and extraterrestrial investigations. The book focuses on the latest ice drilling technologies, but also discusses the historical development of ice drilling tools and devices over the last 100 years to offer valuable insights into what is possible and what not to do in the future. Featuring numerous figures and pictures, many of them published for the first time, it is intended for specialists working in ice-core sciences, polar oceanography, drilling engineers and glaciologists, and is also a useful reference for researchers and graduate students working in engineering and cold-regions technology.

**Infrared and Raman Characteristic Group Frequencies**-George Socrates  
2004-06-18 The third

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edition of this highly successful manual is not only a revised text but has been extended to meet the interpretive needs of Raman users as well as those working in the IR region. The result is a uniquely practical, comprehensive and detailed source for spectral interpretation. Combining in one volume, the correlation charts and tables for spectral interpretation for these two complementary techniques, this book will be of great benefit to those using or considering either technique. In addition to the new Raman coverage the new edition offers: \* new section on macromolecules including synthetic polymers and biomolecules; \* expansion of the section on NIR (near infrared region) to reflect recent growth in this area; \* extended chapter on inorganic compounds including minerals and glasses; \* redrawn and updated charts plus a number of new charts covering data new to this edition. This new edition will be invaluable in every industrial, university, government and hospital laboratory where infrared

(FT-IR) and Raman spectral data need to be analysed.

### **Plant Breeding in the**

**Omic Era**-Rodomiro Ortiz Ríos 2015-09-16 The field of plant breeding has grown rapidly in the last decade with breakthrough research in genetics and genomics, inbred development, population improvement, hybrids, clones, self-pollinated crops, polyploidy, transgenic breeding and more. This book discusses the latest developments in all these areas but explores the next generation of needs and discoveries including omics beyond genomics, cultivar seeds and intellectual and property rights. This book is a leading-edge publication of the latest results and forecasts important areas of future needs and applications.

### **Pediatric Nephrology**

-Ellis D. Avner 2009-08-20 Here is an extensive update of Pediatric Nephrology, which has become the standard reference text in the field. It is global in perspective and

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reflects the international group of editors, who are well-recognized experts in pediatric nephrology. Within this text, the development of kidney structure and function is followed by detailed and comprehensive chapters on all childhood kidney diseases.

### **Computer Methods-**

2010-12-24 The combination of faster, more advanced computers and more quantitatively oriented biomedical researchers has recently yielded new and more precise methods for the analysis of biomedical data. These better analyses have enhanced the conclusions that can be drawn from biomedical data, and they have changed the way that experiments are designed and performed. This volume, along with the 2 previous Computer Methods volumes for the Methods in Enzymology series, aims to inform biomedical researchers about recent applications of modern data analysis and simulation methods as applied to biomedical research. Presents step-by-step computer methods and discusses the techniques in

detail to enable their implementation in solving a wide range of problems. Informs biomedical researchers of the modern data analysis methods that have developed alongside computer hardware. Presents methods at the "nuts and bolts" level to identify and resolve a problem and analyze what the results mean.

### **The Handbook of Cannabis Therapeutics-**

Ethan B. Russo  
2014-05-22 Learn the facts behind the pharmacology and pharmacokinetics of controversial cannabis therapeutics. The Handbook of Cannabis Therapeutics: From Bench to Bedside sets aside the condemnation and hysteria of society's view of cannabis to concentrate on the medically sound aspects of cannabis therapeutics. The world's foremost experts provide a reasoned, thoroughly researched overview of the controversial subject of cannabis, from its history as a medicine through its latest therapeutic uses. The latest studies on the botany, history, biochemistry, pharmacology, toxicology,

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clinical use for various illnesses such as AIDS, epilepsy, and multiple sclerosis, and side effects of marijuana are all examined and discussed in depth. This comprehensive resource is a compendium of articles from the Journal of Cannabis Therapeutics—with additional contemporary commentary. It presents startling research that explores and supports the medicinal value of cannabis use and its derivatives as a valid therapeutic resource for pain and inflammation, for several illnesses less responsive to other therapies, and even for certain veterinary uses. Cannabinoids such as nabilone, THC, levonantradol, ajulemic acid, dexanabinol, and others are extensively described, with a review of new indications for cannabinoid pharmaceuticals. The book is carefully referenced to encourage your examination of previous studies and provides tables and figures to enhance understanding of information. The Handbook of Cannabis Therapeutics discusses: the uses of cannabis in Arabic, Greek, Roman, and early English medicines absorption

rates pharmacokinetics pharmacodynamics separate extracts versus the use of cannabis in its entirety the therapeutic value of the endocannabinoid system cannabinoids and newborn feeding a comparison of smoking versus oral preparations clinical research data on eating cannabis therapeutic uses as appetite stimulant treatments in obstetrics and gynecology medicinal treatments used in Jamaica the use of cannabis in the treatment of multiple sclerosis the benefits versus the adverse side effects of cannabis use The Handbook of Cannabis Therapeutics is a reference work certain to become crucial to physicians, psychologists, researchers, biochemists, graduate students, and interested members of the public.

### **School-based Prevention**

**for Children at Risk**—Emory L. Cowen 1996-01-01 National surveys suggest that three out of ten children experience moderate to severe school adjustment problems. Failure to profit from the school experience restricts children's

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achievement in later life and places them at risk for personally devastating and socially costly outcomes. Unfortunately, the existing mental health system lacks the resources to deal with this major human and social problem. This book describes the evolution and daily operation of the Primary Mental Health Project, an innovative school-based programme that provides a practical alternative to traditional after-the-fact intervention. This award-winning programme's longevity (it has been in operation for almost 40 years) and its continuing expansion (it now operates in over 700 school districts worldwide) are evidence of its success.

### **Proteomic Methods in Neuropsychiatric Research-**

Paul C. Guest 2017-03-22 Due to continuous technical developments and new insights into the high complexity of neurological diseases, there is an increasing need for the application of proteomic technologies which can yield potential biomarker readouts

for improved clinical management as well as for the development of new drugs by struggling pharmaceutical companies. This book describes the step-by-step use of proteomic methods such as two-dimensional gel electrophoresis, multiplex immunoassay, liquid chromatography mass spectrometry (LC-MS) and selective reaction monitoring MS, to increase our understanding of these diseases, with the ultimate aim of improving patient care. The volume will be of high interest to clinical scientists, physicians and pharmaceutical company scientists as it gives insights into the latest technologies enabling the revolution of personalized medicine. It is of direct interest to both technical and bench biomarker scientists as it gives step by step instructions on how to carry out each of the protocols. It is also of interest to researchers as each technique will be presented in the context of a specific neurological disorder, including Alzheimer's disease, multiple sclerosis, autism spectrum disorders,

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schizophrenia, major depressive disorder and bipolar disorder. Finally, it will also highlight the future research efforts in this field, which are endeavoring to convert proteomic platforms to the form of hand held devices which can be used in a point of care setting and return diagnostic results within the timeframe of a visit to the general practitioner.

### **Handbook on Biological Warfare Preparedness-S.J.S.**

Flora 2019-10-05 Handbook on Biological Warfare Preparedness provides detailed information on biological warfare agents and their mode of transmission and spread. In addition, it explains methods of detection and medical countermeasures, including vaccine and post-exposure therapeutics, with specific sections detailing diseases, their transmission, clinical signs and symptoms, diagnosis, treatment, vaccines, prevention and management. This book is useful reading for researchers and advanced students in toxicology, but it will also

prove helpful for medical students, civil administration, medical doctors, first responders and security forces. As the highly unpredictable nature of any event involving biological warfare agents has given rise to the need for the rapid development of accurate detection systems, this book is a timely resource on the topic. Introduces different bacterial and viral agents, including Ebola and other emerging threats and toxins Discusses medical countermeasures, including vaccines and post-exposure therapeutics Includes a comprehensive review of current methods of detection

### **Noncanonical Amino Acids-**

Edward A. Lemke 2019-06-04

This volume covers some of the most widely used protocols on nanocanonical amino acids, providing details and advice for users to get each method up and running for their chosen application. Chapters have been divided into three parts describing methods for protein production in the test tube, in prokaryotes, and in

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eukaryotes. 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. Authoritative and practical, *Noncanonical Amino Acids: Methods and Protocols* aims to provide readers with techniques that enable them to design new experiments and create new areas of research.

### **Imaging of the Temporal**

**Bone**-Joel D. Swartz

2011-01-01 Praise for this book: This book is highly recommended and should find its way onto the library shelf of every neuroradiology section.--*American Journal of Neuroradiology* Authoritative and lavishly illustrated, this best-selling reference returns in a fourth edition with comprehensive coverage of the current imaging strategies for the evaluation of disease processes affecting the temporal bone and its

intricate anatomy. New in this edition is a highly practical how-to chapter that presents imaging modalities and technical parameters for CT and MRI as well as an overview of the role of plain film radiography, ultrasound, PET, and PET/CT. The chapter then addresses major clinical indications, providing step-by-step descriptions of how to protocol each case, how to interpret the studies, and how to report findings. The remaining chapters thoroughly cover specific anatomic areas of the temporal bone separately. Each chapter places special emphasis on gaining a solid foundation of the normal anatomy and anatomic variations. It then discusses imaging protocols and image evaluation for specific clinical problems. Highlights: Practical discussion of standard techniques, protocols, and special considerations for imaging using CT and MRI In-depth coverage of both common and rare conditions Clinical insights from international authorities in the field More than 1,500 high-quality illustrations and images,

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including CT, MRI, and vascular images using CTA, MRA, and conventional catheter angiography This book is an essential reference for a multidisciplinary approach to assessing diseases affecting the temporal bone. It is an ideal resource for all radiologists,

neuroradiologists, head and neck radiologists, and residents in these specialties. It is also valuable for otolaryngologists, otologists, and head and neck surgeons.