

Titles in Infectious Diseases and Epidemiology 2010/11

Textbook

TEXTBOOK OF OCCUPATIONAL MEDICINE PRACTICE (3rd Edition)

edited by **David Koh** (*National University of Singapore*) & **Ken Takahashi** (*University of Occupational and Environmental Health, Japan*)

This third edition of the textbook has been fully revised and includes new materials and chapters. The contents of the book have been streamlined to appear in two sections. The approach of examining occupational health issues and concerns from the standpoint of clinical presentations of the different organ systems is retained. These clinically oriented chapters form Section One. Section Two comprises issues of special interest to occupational health practitioners such as screening and routine medical examinations, assessment of disability for compensation, medical planning and management of industrial disasters, occupational medicine practice and the law, and the prevention of occupational diseases.

Contents: *Clinical Occupational Medicine:* Work and Health (*D Koh & J Sng*); Renal Disorders (*J Sng et al.*); Respiratory Disorders (*H-S Lee et al.*); Skin Disorders (*D Koh & C-L Goh*); Mental Health Disorders (*E-H Kua & K Ung*); Musculoskeletal Disorders (*A Chong et al.*); Hepatobiliary and Gastrointestinal Disorders (*T-C Aw et al.*); Auditory Disorders (*K G Rampal et al.*); Eye Injuries and Other Disorders (*L Lim & T-Y Wong*); Occupational Infections (*I Blair & T-C Aw*); *Special Issues in Occupational Medicine:* Ethics in Occupational Medicine (*S-M Lee & D Koh*); Assessment of Disability for Compensation (*K Choy & H-S Lee*); Medical Disasters Planning and Response (*M-K Lim*); Aviation and Diving Medicine (*W-T Ng & G Chan*); Prevention of Occupational Diseases (*D Koh & J Sng*); and other papers.

Readership: Graduate students, practitioners and researchers in occupational and public health.

300pp
978-981-4329-57-6

Feb 2011
US\$/A

THE HEALTH CARE DILEMMA

A Comparison of Health Care Systems in Three European Countries and the US by **Elizabeth G Armstrong** (*Harvard Medical School, USA*), **Martin R Fischer** (*University of Witten, Germany*), **Ramin W Parsa-Parsi** (*German Medical Association, USA*) & **Miriam S Wetzel** (*Harvard Medical School, USA*)

Key Features:

- Medical authenticity and human interest of first-hand patient case stories that capture patient expectations, written from the fresh perspective of knowledgeable student writers, including in-depth chapters about the workings of the health care systems in the four target countries
- World-wide contacts of the four authors, which include more than 2700 professional/academic participants in the highly-regarded Harvard Macy Institute, colleagues at Harvard Partners Medical International, many university faculties and professional societies in Europe and the United States

Readership: Professors and students of public health policy, medicine, nursing, allied health professions, social sciences as well as the general public interested in public health policy.

454pp	Sep 2010	
978-981-4313-96-4	US\$98	£61
978-981-4313-97-1(pbk)	US\$48	£30
978-981-4313-98-8(ebook)	US\$127	

INSIDE THE 2009 INFLUENZA PANDEMIC

by **Jon Stuart Abramson** (*Wake Forest University School of Medicine, USA*)

Textbook

Key Features:

- A detailed analysis regarding which components of the pre-pandemic planning process were effective and those that did not work
- Describes research that needs to be conducted in planning for the next pandemic
- Discusses policy changes that need to be made to help mitigate the impact of the next pandemic

Contents: Background Information on Seasonal Influenza and Previous Pandemics; Pandemic Planning that Occurred Prior to the 2009 Pandemic; Analysis of the Effectiveness of the Pandemic Plan; The Beginning of the 2009 Pandemic; The Epidemiology, Clinical Manifestations and Outcomes of the First and Second Wave of the 2009 Pandemic; Research and Policy Changes Needed to More Effectively Mitigate the Impact of the Next Pandemic.

Readership: Graduate students and researchers/practitioners in public health and healthcare, undergraduate students and college educated lay public with an interest in understanding the impact of the 2009 pandemic, practitioners and researchers in infectious disease, microbiology/virology and immunology.

200pp	Nov 2010
978-981-4324-10-6	US\$60 £37

THE GLOBAL BURDEN OF CHLAMYDIAE

Chlamydiae, Genomics and Global Public Health
by **Deborah Dean** (*University of California at Berkeley, USA & University of California at San Francisco, USA*)

This book describes the major discoveries regarding chlamydial evolution, virulence, and pathogenesis as they relate to human chlamydial diseases worldwide. It discusses these discoveries through the application of new and advanced bioinformatics and statistical tools for comparative genomics, microarray analyses, and functional genomics. This monograph also deals with the threat posed by the expanding and evolving repertoire of chlamydial organisms that originate from reptiles and lower-vertebrate mammals, as well as from the environment. It includes an in-depth discussion on how these research discoveries help to bring about approaches for global disease interventions including vaccine development, and on the broader public health impact. This book will appeal to those interested in infectious diseases generally.

Readership: Researchers and public health practitioners interested in infectious diseases and the application of bioinformatics tools.

400pp **Feb 2012**
978-1-84816-546-5 **US\$124 £86**
978-1-84816-547-2(ebook) **US\$161**

Global Health Diplomacy - Vol. 1

THE POWER SHIFT IN GLOBAL HEALTH

Emerging Economics and Regional Groupings
edited by **Ilona Kickbusch** (*Graduate Institute of International and Development Studies, Switzerland*)

The book argues that global health governance is being conducted in a nonpolar world, one in which nation states are competing to establish their spheres of influence on a global scale, what Parag Khanna in his book *The Second World* has called the geopolitical marketplace. The emerging economies and new power centers are not only using the existing focal institution in global health, the World Health Organization, but also creating and using informal institutions such as clubs and regional groups, as well as bilateral ties with southern countries to increase their own influence on global decision-making for health.

Readership: Undergraduates, postgraduates and academics in global health, political science or international relations, political economy, and development or public policy; health professionals in international organizations.

200pp **Jul 2011**
978-981-4324-15-1 **US\$78 £48**
978-981-4324-16-8(ebook) **US\$101**

EPIDEMIOLOGY OF CHILDHOOD CANCERS

edited by **Philip C Nasca & Colleen C McLaughlin**
(*State University of New York, USA*)

This is an up-to-date review of the epidemiology of childhood cancers. The text is divided into three parts with Part 1 designed to introduce the reader to the descriptive epidemiology, clinical aspects, and biologic basis of childhood cancers. This section also provides a detailed account of the methodological issues involved in the epidemiologic study of pediatric cancers. Part 2 provides an overview of the epidemiology of the various cancer types affecting children, while Part 3 provides a detailed review of the genetics of childhood cancers and the possible role of various environmental exposures in their etiology. It will also contain a glossary and a list of Internet sites where additional information and data on childhood cancers can be obtained.

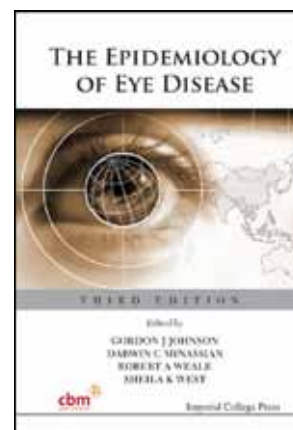
Readership: Graduate students in pediatric oncology, cancer researchers and pediatricians.

400pp **Jun 2011**
978-981-4295-79-6 **US\$122 £84**
978-981-4295-80-2(ebook) **US\$159**

THE EPIDEMIOLOGY OF EYE DISEASE (3rd Edition)

edited by **Gordon J Johnson** (*Oxford University, UK*),
Darwin C Minassian, Robert A Weale (*King's College London, UK*) &
Sheila West (*Johns Hopkins Hospital, USA*)

This unique book is a comprehensive coverage of the epidemiology of the world's major blinding eye diseases, written by internationally acclaimed experts in each field. Edited by world-renowned epidemiologists and ophthalmologists, the chapters on each leading cause of blindness describe its biology, epidemiology, risk factors, clinical trials, possibilities for prevention, and new research avenues. New chapters include Research Synthesis, Epidemiology of Dry Eye Disease, and Epidemiology of Uveitis, as well as programme issues for reaching the goal of eliminating avoidable blindness by 2020.



This book is essential for any eye care practitioner interested in the causation or prevention of disease, and should be part of any public health discipline's library with a focus on improving eye health worldwide.

Readership: Non-governmental organizations, eye care program managers, government officials and overseeing eye care services.

500pp **May 2011**
978-1-84816-625-7 **US\$138 £86**
978-1-84816-627-1(ebook) **US\$179**

THE EPIDEMIOLOGY AND CONTROL OF SEXUALLY TRANSMITTED INFECTIONS

From Theory to Practice
by **Geoffrey P Garnett** (*Imperial College London, UK*)

This book explores the theory behind the epidemiology of sexually transmitted infections (STIs) based on the natural history of infections. A wide variety of STIs are covered, including gonorrhoea, syphilis, chlamydia, chancroid, trichomoniasis, herpes simplex virus, human papilloma virus, and human immunodeficiency virus (HIV). It describes the advances in measuring patterns of sexual contacts within populations as well as the observed relationships between STIs and risk factors at the individual and population levels. It then reviews the available behavioral and biomedical interventions against STIs and the evidence for their efficacy, effectiveness, and impact. These issues are examined using mathematical models derived from population-based surveys of sexual behavior and STIs. It is therefore unique in drawing together theoretical and empirical research on STI epidemiology in a coherent framework.

Readership: Researchers, practitioners, and graduate students in the fields of infectious diseases, epidemiology, and public health.

300pp **Apr 2011**
978-1-84816-317-1 **US\$88 £61**
978-1-84816-358-4(ebook) **US\$114**

HEALTH HAZARDS OF ENVIRONMENTAL ARSENIC POISONING

From Epidemic to Pandemic

edited by **Chien-Jen Chen** (*Academia Sinica, Taiwan & National Taiwan University, Taiwan*) & **Hung-Yi Chiou** (*Taipei Medical University, Taiwan*)

This book covers the entire spectrum of health effects induced by chronic arsenic poisoning, which is prevalent in more than 30 countries due to the use of unclean underground water, a result of surface water pollution and shortage. This environmental health disaster has been considered more catastrophic than the Chernobyl nuclear plant explosion in the former Soviet Union and the Bhopal chemical plant explosion in India.

Readership: Researchers and practitioners in public health, environmental health researchers and toxicologists.

350pp **Sep 2010**
978-981-4291-81-1 **US\$124 £86**
978-981-4291-82-8(ebook) **US\$161**

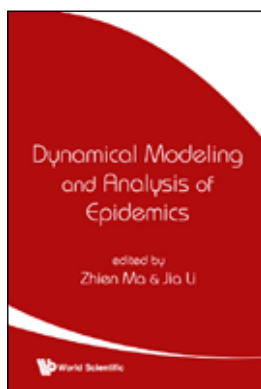
DYNAMICAL MODELING AND ANALYSIS OF EPIDEMICS

edited by **Zhien Ma** (*Xi'an Jiaotong University, China*) & **Jia Li** (*University of Alabama in Huntsville, USA*)

This timely book covers the basic concepts of the dynamics of epidemic disease, presenting various kinds of models as well as typical research methods and results. It introduces the latest results in the current literature, especially those obtained by highly rated Chinese scholars. A lot of attention is paid to the qualitative analysis of models, the sheer variety of models, and the frontiers of mathematical epidemiology. The process and key steps in epidemiological modeling and prediction are highlighted, using transmission models of HIV/AIDS, SARS, and tuberculosis as application examples.

Readership: Senior undergraduates and graduate students in applied mathematics, public health and epidemiology; experts interested in epidemiology and the control and prevention of infectious diseases.

512pp **May 2009**
978-981-279-749-0 **US\$156 £107**
978-981-279-750-6(ebook) **US\$203**



Series in Contemporary Applied Mathematics - Vol. 11

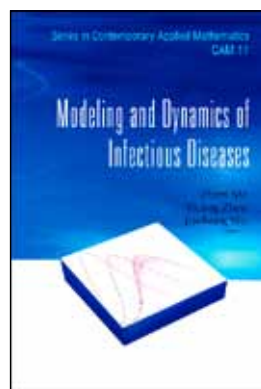
MODELING AND DYNAMICS OF INFECTIOUS DISEASES

edited by **Zhien Ma, Yicang Zhou** (*Xi'an Jiaotong University, China*) & **Jianhong Wu** (*York University, Canada*)

This book provides a systematic introduction to the fundamental methods and techniques and the frontiers of — along with many new ideas and results on — infectious disease modeling, parameter estimation and transmission dynamics. It provides complementary approaches, from deterministic to statistical to network modeling; and it seeks viewpoints of the same issues from different angles, from mathematical modeling to statistical analysis to computer simulations and finally to concrete applications.

Readership: Advanced undergraduate and, graduate students in applied mathematics; non-experts who are interested in modeling infectious disease transmission and public health problems.

356pp **Apr 2009**
978-981-4261-25-8 **US\$113 £78**
978-981-4261-26-5(ebook) **US\$147**



RNA VIRUSES

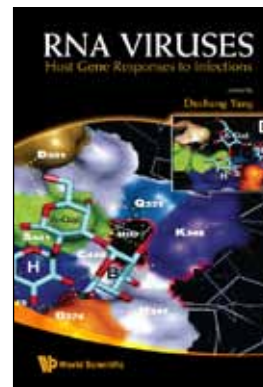
Host Gene Responses to Infections

edited by **Decheng Yang** (*University of British Columbia, Canada*)

Organized into 27 highly accessible and well-illustrated chapters, this volume explores state-of-the-art knowledge of the molecular mechanisms of RNA virus infection and host-virus interactions. This comprehensive compilation of the altered gene expression profiles and signal transduction pathways in host cells in response to the majority of human/animal RNA viruses opens new directions for basic and clinical research on viral pathogenesis, and also provides valuable biomarkers for researchers to select gene targets in the development of diagnostic tests and antiviral therapeutics for a number of infectious diseases.

Readership: Undergraduate and graduate students in microbiology, and academic and industry researchers in virology.

724pp **Jan 2009**
978-981-283-379-2 **US\$162 £112**
978-981-283-380-8(ebook) **US\$211**



Tropical Medicine: Science and Practice - Vol. 5

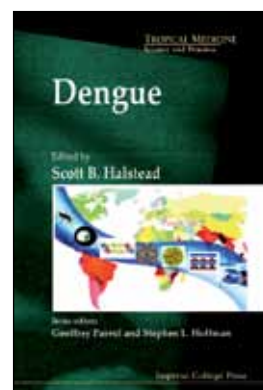
DENGUE

edited by **Scott B Halstead** (*International Vaccine Institute, Korea*)

This unique volume presents an up-to-date review of one of the world's major health problems — diseases caused by the four dengue viruses. It begins with an insightful story of the origin of dengue disease outbreaks, including the emergence of severe and fatal dengue hemorrhagic fever. The nature, structure and biology of the four dengue viruses are described, and a major portion of the book is focused on the epidemiology of dengue as a mosquito-borne disease.

Readership: Academics, researchers, graduates in the field of infectious diseases and virology as well as pharmaceutical and biotech companies involved in dengue vaccine research.

508pp **Oct 2008**
978-1-84816-228-0 **US\$175 £121**
978-1-84816-229-7(ebook) **US\$228**



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POPULATION DYNAMICS AND INFECTIOUS DISEASES IN ASIA

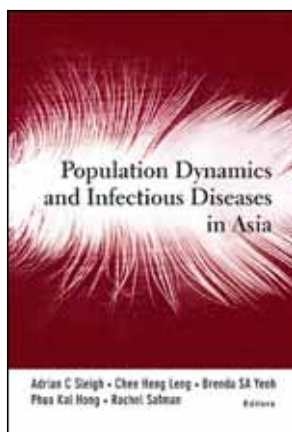
edited by **Adrian C Sleigh** (*Australian National University, Australia*), **Chee Heng Leng**, **Brenda SA Yeoh**, **Phua Kai Hong** & **Rachel Safman** (*National University of Singapore*)

"This book is a valuable contribution to understanding the demographic history of an important but less emphasized region of Southeast Asia. The rich use of many sources makes this a valuable book that will be useful to people interested in the region and on its archival material, much of which is only in Dutch."

Southeast Asian Studies

Readership: Academics and professional organizations in public health, medical sociology, geography, demography; international health academics and managers.

464pp **Dec 2006**
978-981-256-833-5 **US\$146** **£100**
978-981-277-339-5(ebook) **US\$190**



Air Pollution Reviews - Vol. 3

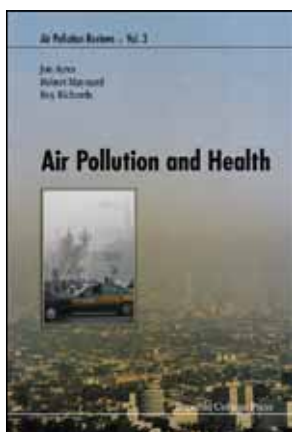
AIR POLLUTION AND HEALTH

by **Jon Ayres** (*University of Aberdeen, UK*), **Robert Maynard** (*UK Department of Health, UK*) & **Roy Richards** (*University of Cardiff, UK*)

This invaluable volume, the third in the series *Air Pollution Reviews*, addresses particular questions relating to air pollution and its effect on health. It deals with the impact of nasal disease on lung exposure, how pollutants are distributed within the lung, and the uncertainties with regard to defining the dose to the lung. It takes a tangential look at the lung dose by exploring the possibility of obtaining clues from occupational medicine.

Readership: Government bodies, environmentalists, scientists in the field of air pollution, undergraduate and graduate students.

264pp **Sep 2006**
978-1-86094-191-7 **US\$121** **£83**
978-1-86094-923-4(ebook) **US\$157**



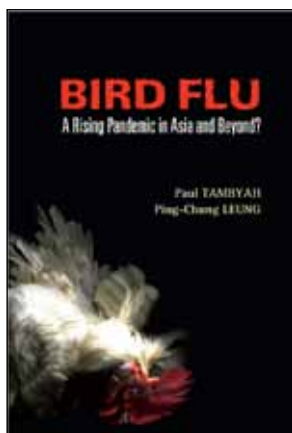
BIRD FLU

A Rising Pandemic in Asia and Beyond?
 by **Paul A Tambyah** (*National University of Singapore*) & **Ping-Chung Leung** (*Chinese University of Hong Kong, Hong Kong*)

In this timely book, a group of experts from across Asia come together to answer these and other issues. While there are many questions which can never be answered, here for the first time is a series of scholarly articles written for the layperson by scientists and clinicians addressing the issues surrounding avian influenza and global pandemic influenza in humans.

Readership: General public, virologists, microbiologists, medical and flu researchers and academics, animal scientists, public health specialists, infectious disease experts, government health ministries, viral research institutes, centers for disease control and the WHO.

268pp **Apr 2006**
978-981-256-815-1 **US\$87** **£60**
978-981-256-807-6(pbk) **US\$44** **£30**
978-981-270-733-8(ebook) **US\$113**



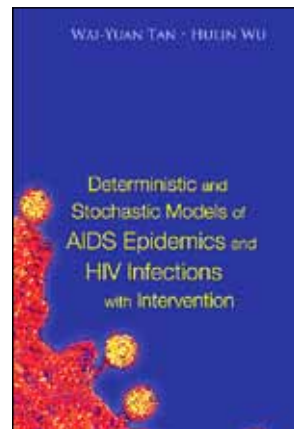
DETERMINISTIC AND STOCHASTIC MODELS OF AIDS EPIDEMICS AND HIV INFECTIONS WITH INTERVENTION

by **Wai-Yuan Tan** (*University of Memphis, USA*) & **Hulin Wu** (*University of Rochester, USA*)

With contributions from an international team of leading researchers, the book pulls together updated research results in the area of HIV/AIDS modeling to provide readers with the latest information in the field. Topics covered include: AIDS epidemic models; vaccine models; models for HIV/cell dynamics and interactions; cellular kinetics; viral dynamics with antiviral treatments; modeling of drug resistance and quasisppecies.

Readership: Upper-level undergraduates, graduate students, biomathematical and biostatistical researchers, HIV/AIDS epidemiologists and researchers, AIDS clinical investigators.

612pp **Jul 2005**
978-981-256-139-8 **US\$218** **£150**
978-981-256-926-4(ebook) **US\$283**



SEVERE ACUTE RESPIRATORY SYNDROME

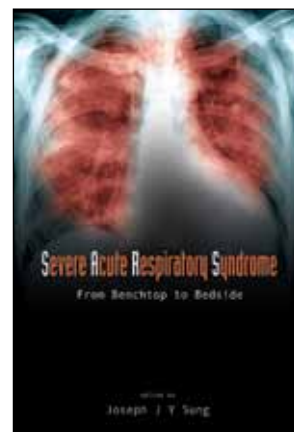
From Benchtop to Bedside
 edited by **Joseph J Y Sung**
 (*The Chinese University of Hong Kong*)

This is a comprehensive and up-to-date account of the clinical management of severe acute respiratory syndrome (SARS). It covers the various aspects, from diagnosis, clinical presentation and therapeutic modalities to rehabilitation.

The information presented is based on existing knowledge and evidence about the disease, taking the view that things are still evolving.

Readership: Undergraduates and graduates of medical and nursing schools; academics and medical practitioners.

268pp **Aug 2004**
978-981-238-753-0 **US\$96** **£66**
978-981-256-566-2(ebook) **US\$125**



ADVANCED MEDICAL STATISTICS

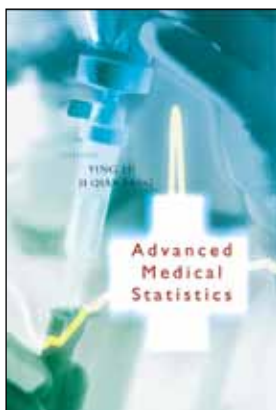
edited by **Ying Lu** (*University of California, San Francisco, USA*) & **Ji-Qian Fang** (*Sun Yat-Sen University, Guangzhou, China*)

"Overall the book covers a wide variety of applications. Each method is presented in sufficient depth to allow the reader to understand when the method(s) can be used ... this book would be a useful resource for any practitioner in medical research."

Statistical Methods in Medical Research

Readership: Biostatisticians, applied statisticians, medical researchers and clinicians, biopharmaceutical researchers, public health epidemiologists, biometricians and applied mathematicians.

1120pp	Nov 2003	
978-981-02-4799-7	US\$276	£191
978-981-02-4800-0(pbk)	US\$124	£86
978-981-238-875-9(ebook)	US\$359	



SARS WAR

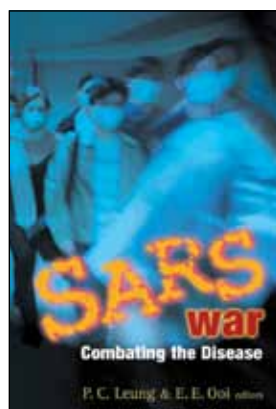
Combating the Disease
edited by **P C Leung** (*Prince of Wales Hospital, Hong Kong*) & **E E Ooi** (*National Environment Agency, Singapore*)

"... physicians, epidemiologists, and historians alike will find aspects of SARS War: Combating the Disease of Interest ... this book presents a stirring chronicle."

The Journal of Clinical Investigation

Readership: General public, healthcare workers, doctors and researchers.

156pp	Apr 2003	
978-981-238-433-1	US\$37	£26
978-981-238-438-6(pbk)	US\$20	£14
978-981-279-119-1(ebook)	US\$48	



Quantitative Sciences on Biology and Medicine - Vol. 1

BASIC PRINCIPLES AND PRACTICAL APPLICATIONS IN EPIDEMIOLOGICAL RESEARCH

by **Jung-Der Wang** (*National Taiwan University College of Public Health & National Taiwan University Hospital*)

Based on the concept of "conjecture and refutation" from the Popperian philosophy of science, i.e. looking for alternative causes, this book simplifies the design and inferences of human observational studies into two types: descriptive and causal. It clarifies how and why causal inference should be considered from the search for alternative explanations or causes, and descriptive inference from the sample at hand to the source population.

Readership: Practitioners, academics, researchers, upper level undergraduates and graduate students in public-health-related fields and toxicology.

380pp	Feb 2002	
978-981-02-4801-7	US\$77	£53
978-981-02-4925-0(pbk)	US\$44	£30
978-981-277-572-6(ebook)	US\$100	



Other Titles of Interest

Introductory Series in Medicine - Vol. 2

CLINICAL INTENSIVE CARE MEDICINE

edited by **Carlos M H Gómez** (*St Mary's Hospital, UK*)

Written by outstanding specialist practitioners who are also internationally acclaimed authors from the UK and North America, this is an authoritative guide to practical intensive care medicine. The clinical contents of the book share a practical and educational common thread with each chapter addressing pertinent clinical challenges comprehensively. This invaluable book is specially targeted at medical students, trainees in intensive care medicine and other acute specialties, consultants wishing to remain up to date on all branches of this vast specialty and other allied professionals practicing in intensive care including nurses and physiotherapists.

Readership: Doctors, nurses and physiotherapists specialising in intensive care medicine, doctors in acute medical specialties and medical students.

900pp	Nov 2011	
978-1-84816-388-1	US\$158	£105
978-1-84816-389-8(ebook)	US\$257	

HISTOPATHOLOGY OF GLYCAN DIVERSITY

Lectin Histochemistry

by **Nissi Varki** & **Pascal Gagneux** (*University of California, San Diego, USA*)

This book is an educational endeavor in the unique field of Glycobiology, which has an impact on cell development, differentiation, tumor formation, cancer progression and metastasis, as well as pathogen recognition and binding in infectious diseases. The surfaces of all cells are covered by glycoconjugates, the construction of which is exquisitely governed by a number of enzymes, and the expression is highly tissue-specific. To study these glycoconjugates, lectins, a type of carbohydrate-binding protein commonly found in plants, are used to detect differences in the cell surface carbohydrate linkages that occur on the different cell types, in different tissues of the body. The first of its kind to catalog the patterns of lectin binding to different tissues of organs in humans and mice, this highly illustrated book will be an important reference for academics and researchers in the field of glycobiology.

Readership: Postgraduate students and researchers in the field of glycobiology.

250pp	Jun 2011	
978-1-84816-639-4	US\$80	£50
978-1-84816-641-7(ebook)	US\$104	

HEPATITIS VIRUSES AND HEPATOCELLULAR CARCINOMA

edited by **Ding-Shinn Chen** (*National Taiwan University, Taiwan*)

The role of hepatitis B and C in causing hepatocellular carcinoma has been made clear in the last 20–30 years by clinical, basic, and epidemiological studies. Recent research has also explored the prevention of hepatocellular carcinoma through the control of chronic hepatitis B or C viral infection. This review volume covers in detail the various aspects of hepatitis viruses in relation to hepatocellular carcinoma, ranging from the epidemiology of the disease to its prevention and treatment. Readers will thus gain a complete, well-informed knowledge of this increasingly prevalent disease.

Readership: Graduate students, researchers, and professionals in the fields of gastroenterology, infectious diseases, microbiology, virology, oncology, and cancer research.

500pp	May 2011	
978-981-283-778-3	US\$110	£83
978-981-283-779-0(ebook)	US\$179	

NEGATIVE STRAND RNA VIRUS

edited by **Ming Luo** (*The University of Alabama at Birmingham, USA*)

Negative strand RNA viruses have a unique mechanism of replication. Their genome is a single strand RNA that has to be transcribed as soon as the virus enters the host in order to carry out viral replication. As a result, a viral-specific RNA polymerase is packaged in the virion and is ready for transcription after virus entry. This novel replication mechanism dictates the assembly and RNA synthesis of negative strand RNA viruses. In recent years, many discoveries have been made with regard to the entry, replication and assembly of this class of viruses. This book will present updated coverage of the fundamental knowledge about negative strand RNA viruses.

Readership: Graduate students and researchers interested in negative strand RNA viruses, or the development of new antiviral drugs.

500pp **May 2011**
978-981-4317-22-1 **US\$138** **£86**
978-981-4317-23-8(ebook) **US\$179**

INDIA'S NEXT BIG THING

Healthcare

by **Maathai K Mathiyazhagan**
(*National University of Singapore*)

The main objective of this book is to review the healthcare sector in India and identify possible business opportunities and investment potentials for investors in general, and for global investors, business enterprises and corporate bodies in particular. It forecasts the market size of the healthcare infrastructure, medical technology, equipments and supplies, pharmaceutical industry, health insurance industry, telemedicine and medical tourism. It is unique in its use of national and household survey data and secondary data sources, with statistical and econometric models.

Readership: Researchers in healthcare, graduates and undergraduates studying healthcare, and the general public.

350pp **May 2011**
978-981-283-780-6 **US\$68** **£45**
978-981-283-781-3(ebook) **US\$88**

CHRONIC HEPATITIS B AND C

Basic Science to Clinical Applications
edited by **Chiaho Shih** (*Academia Sinica, Taiwan*)

Chronic Hepatitis B and C consists of 13 chapters, each being a review of a special topic on HBV or HCV. While review articles on a special topic can be found in periodical journals, they tend to be more restricted in presentation. Therefore, this book will provide more in-depth coverage of what are presented as "unpublished results" and "data not shown" in journal articles. Furthermore, several authors in this book do not write review articles regularly. Some authors wrote reviews on a specific topic regularly, but they tried a new topic in this book (e.g., Dr. YF Liaw on "natural course," Dr. Shih on "virion release," Dr. Michael Lai on "lymphotropism of HCV," etc.). Overall, the book will offer useful information at the cutting age.

Readership: Researchers in virology, infectious diseases and cancer medicine.

300pp **Apr 2011**
978-981-4299-78-7 **US\$99** **£68**
978-981-4299-79-4(ebook) **US\$129**

Series on Bioengineering and Biomedical Engineering - Vol. 6

CARDIAC FIBRILLATION-DEFIBRILLATION

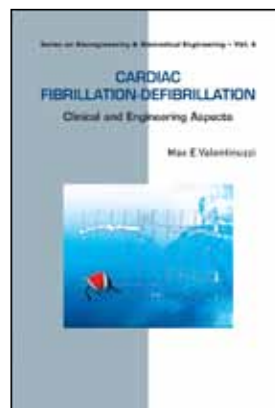
Clinical and Engineering Aspects

by **Max E Valentinuzzi** (*University of Buenos Aires, Argentina & University of Tucumán, Argentina*)

This compendium gives a comprehensive overview of the advances in fibrillation-defibrillation knowledge — recognition of fibrillation as a unique life threatening cardiac arrhythmia; discovery of the electric discharge in its double role of culprit and savior; and technological improved contributions.

Readership: Professionals, researchers, academics, graduates and undergraduates in biomedical engineering, cardiology, public health, nursing and computer engineering.

250pp **Nov 2010**
978-981-4293-63-1 **US\$96** **£66**
978-981-4293-64-8(ebook) **US\$125**

**POPULATION BIOLOGY AND CRITICALITY**

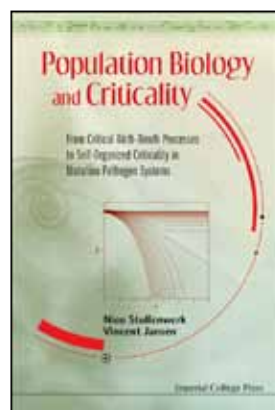
From Critical Birth-Death Processes to Self-Organized Criticality in Mutation Pathogen Systems

by **Nico Stollenwerk** (*Universidade de Lisboa, Portugal*) & **Vincent Jansen** (*Royal Holloway, University of London*)

The present book describes novel theories of mutation pathogen systems showing critical fluctuations, as a paradigmatic example of an application of the mathematics of critical phenomena to the life sciences. It will enable the reader to understand the implications and future impact of these findings, yet at same time allow him to actively follow the mathematical tools and scientific origins of critical phenomena. This book also seeks to pave the way to further fruitful applications of the mathematics of critical phenomena in other fields of the life sciences.

Readership: Academics in the field of biology, medicine and physics (cross-disciplinary) interested in stochasticity in biological and medical systems, in relation to public health, evolutionary biology and microbiology.

250pp **Nov 2010**
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**ALLOGRAFT PROCUREMENT, PROCESSING AND TRANSPLANTATION**

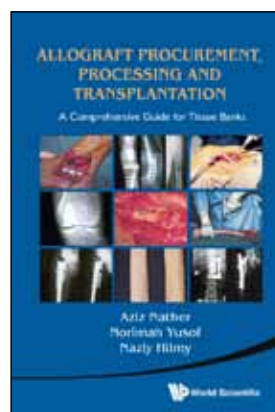
A Comprehensive Guide for Tissue Banks

by **Aziz Nather** (*National University of Singapore, Singapore*), **Norimah Yusof** (*Malaysian Nuclear Agency, Malaysia*), & **Nazly Hilmy** (*BATAN Research Tissue Bank, Indonesia*)

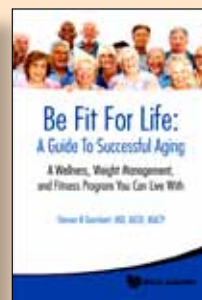
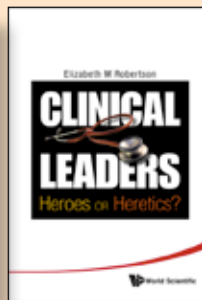
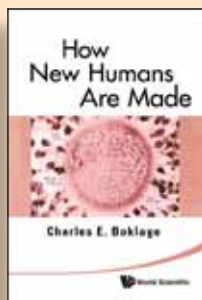
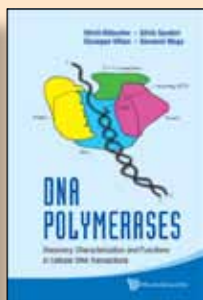
This book is written as a comprehensive guide for all tissue bank operators to procure and process bone and soft tissue allografts of highest quality standards for safe tissue transplantation practice in patients who require musculoskeletal tissue allograft transplantation. This comprehensive guide includes donor selection criteria, aseptic procurement techniques, laboratory testing and processing of grafts by deep freezing or freeze drying.

Readership: Tissue bank operators, doctors and nurses dealing with tissue procurement, radiation scientists/physicians and technicians involved with radiation sterilization of tissue grafts, transplantation surgeons.

588pp **Aug 2010**
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Textbook



THE QUANTAL THEORY OF IMMUNITY

The Molecular Basis of Autoimmunity and Leukemia
by **Kendall A Smith** (*Cornell University, USA*)

This book explains in detail how the immune system, cells and molecules work for the first time. With this understanding as a basis, the pathogenesis of autoimmunity can now be understood as a mutational usurpation of the genes encoding molecules that participate in a sensitive feedback regulatory control of the immune reaction. By comparison, malignant transformation is understood as a mutational usurpation of the genes encoding the molecules that control the quantal decision to proliferate, so that normal ligand/receptor cell growth control is circumvented.

Readership: Undergraduates, graduate students and academics in medicine (immunology, hematology, HIV/AIDS, oncology and infectious diseases) and life sciences (molecular biology).

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by **Ulrich Hübscher** (*University of Zurich, Switzerland*), **Silvio Spadari** (*Institute of Molecular Genetics IGM-CNR, Italy*), **Giuseppe Villani** (*CNRS-Université Paul Sabatier, Toulouse, France*) & **Giovanni Maga** (*Institute of Molecular Genetics IGM-CNR, Italy*)

We have recently witnessed the discovery of an abundance of novel DNA polymerases in viruses, bacteria, archaea and eukaryotes with specialized properties whose physiological functions are only beginning to be understood. This book summarizes the current knowledge of these fascinating enzymes.

Readership: Researchers studying DNA, cell biologists, molecular biologists, graduates in molecular biology, medical doctors.

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Cells and Embryos, Twins and Chimeras, Left and Right, Mind/Self/Soul, Sex, and Schizophrenia
by **Charles E Boklage** (*East Carolina University, USA*)

This book defines its own new field. We cannot claim to understand how anything [human] works [as human], with no effort at understanding the emergence of its form and functions. Old and new unanswered questions are waiting to be dug out from under old unquestioned answers about how becoming human unfolds. We will also address some popular and weighty, but deeply empty assertions about the circumstances and mechanisms of our beginnings and our ceaseless becoming.

Readership: For intelligent people who want to understand the biology of the usual and some unusual ways of becoming human.

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A Wellness, Weight Management, and Fitness Program You Can Live With
by **Steven R Gambert** (*University of Maryland School of Medicine, USA & Johns Hopkins University School of Medicine, USA*)

Be Fit for Life: A Guide to Successful Aging is a self-help book for anyone interested in living a happier and healthier life. Aging is a life-long process and the sooner one accepts this and better prepares for the years ahead, the more successful his/her aging process will be. Dr Gambert, a noted authority in the field of aging and medicine, takes the reader on a journey that provides information and practical advice on how to best prevent an accelerated aging process, avoid disease, and recognize and treat problems early.

Readership: General public; health professionals and therapists interested in the study of aging, wellness and health promotion.

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Proceedings

CURRENT RESEARCH TOPICS IN APPLIED MICROBIOLOGY AND MICROBIAL BIOTECHNOLOGY

Proceedings of the II International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2007)
University of Seville, Spain, 28 November – 1 December 2007
edited by **Antonio Mendez-Vilas** (*Formatex Research Center, Spain*)

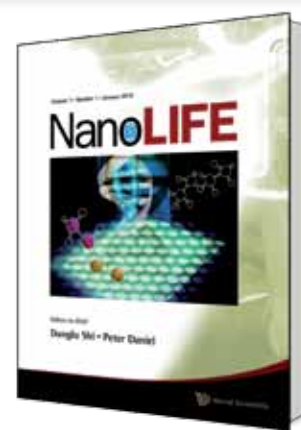
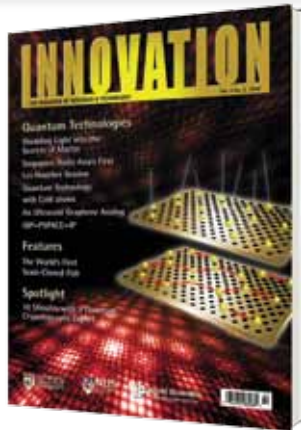
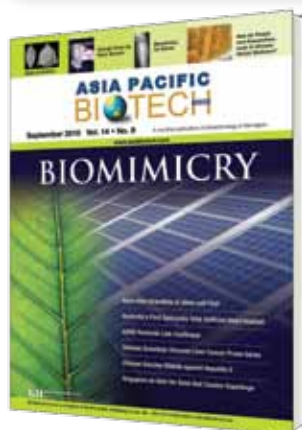
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Proceedings of the III International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2009)
Lisbon, Portugal, 2 – 4 December 2009
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Journals



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Journal of Biological Systems (JBS)

<http://www.worldscinet.com/jbs.html>

Volume: 17, Issue: 3 (September 2009)

Paper Highlights:

- **NEW DRUG R&D OF TRADITIONAL CHINESE MEDICINE: ROLE OF DATA MINING APPROACHES** (HONGJUN YANG, JIANXIN CHEN, SHIHUAN TANG, ZHENKUN LI, YISONG ZHEN, LUQI HUANG and JIANQIANG YI)
- **CONTINUOUS WAVELET ANALYSIS OF GENE EXPRESSION SIGNALS FOR CANCER CLASSIFICATION** (XIN-PING XIE, XUAN-HAO DING, HONG-QIANG WANG and YING-CHUN JIANG)
- **NONLINEAR DYNAMICS OF CELL CYCLES WITH STOCHASTIC MATHEMATICAL MODELS** RODERICK V. N. MELNIK, XILIN WEI and GABRIEL MORENO-HAGELSIEB
- **MODELING AND ANALYZING THE METABOLISM OF RIBOFLAVIN PRODUCTION USING PETRI NETS** (D.-W. DING and L. N. LI)

Nano LIFE

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Aims & Scope

Nano LIFE is an international peer-reviewed journal that will be divided into three different categories: Life Sciences, Nanosciences, and Nanomedicine. In each category, for instance, in Nanosciences, there are sub-fields of chemical synthesis, structures, and properties of nanomaterials. The Life Sciences section will accept high quality papers in pure biomedical areas. Nano LIFE will collect the top and frontier research results from the nanobiomedicine communities covering the following topics:

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- Nanoscale magnetic nanoparticles
- Mechanics of biological and bioinspired materials
- Fluorescent nanomaterials
- Magnetic nanomaterials for hyperthermia applications
- Using biological building blocks to create novel materials and devices
- Smart nanomaterials for sensors and transducers
- Using materials to probe, alter, and control biological responses
- Understanding biological responses to implanted or injected materials
- Quantum dots/nanocrystals in biolabeling, marking, etc.
- Scintillation crystal materials for medical PET imaging devices
- Early cancer diagnosis and treatment
- Nanomedicine - General
- Novel therapies
- Cellular and molecular dynamics
- Nanotechnology approaches to drug design, storage, and delivery
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