

2025

LIFE SCIENCES



Highlights

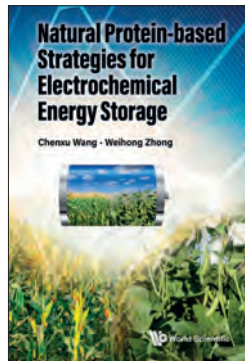
Life Science Catalogue 2025

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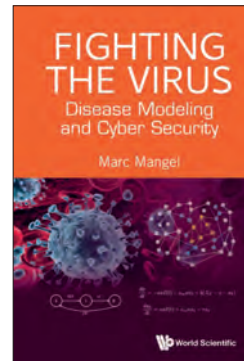
Reactive Species: Manipulations Toward Desired Outcomes in Biological Systems
by **G K Suraishkumar** (*Indian Institute of Technology Madras, India*)

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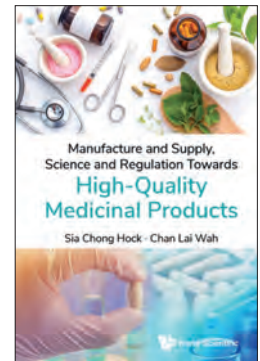
Natural Protein-based Strategies for Electrochemical Energy Storage
by **Chenxu Wang & Weihong Zhong** (*Washington State University, USA*)

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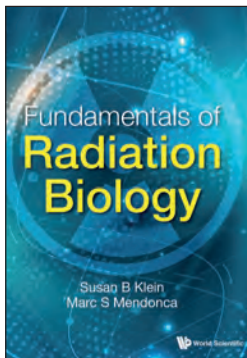
Fighting the Virus: Disease Modeling and Cyber Security
by **Marc Mangel** (*University of Bergen, Germany & University of California, Santa Cruz, USA*)

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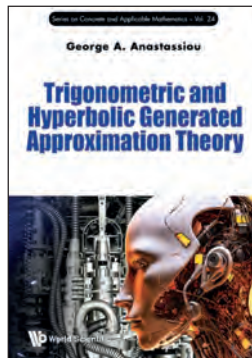
Manufacture and Supply, Science and Regulation Towards High-Quality Medicinal Products
by **Chong Hock Sia** (*Health Sciences Authority, Singapore*), **Lai Wah Chan** (*National University of Singapore, Singapore*)

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Fundamentals of Radiation Biology
by **Susan B Klein** (*Indiana University, USA*), **Marc S Mendonca** (*Indiana University, USA & Purdue University, USA*)

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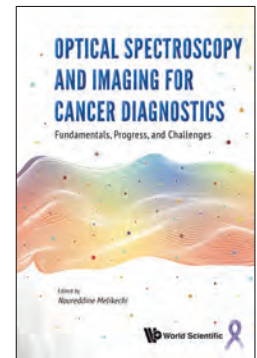
Series on Concrete and Applicable Mathematics - Vol 24
Trigonometric and Hyperbolic Generated Approximation Theory
by **George A Anastassiou** (*The University of Memphis, USA*)

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Food Security Issues in Asia
edited by **Paul Teng** (*Nanyang Technological University, Singapore*)

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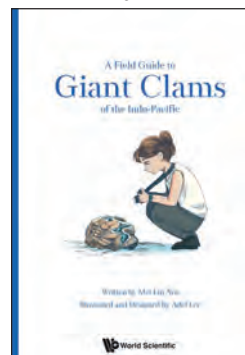
Optical Spectroscopy and Imaging for Cancer Diagnostics: Fundamentals, Progress, and Challenges
edited by **Noureddine Melikechi** (*University of Massachusetts Lowell, USA*)

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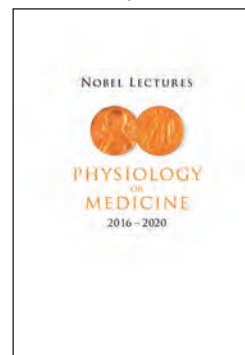
Raman Spectroscopy in Human Health and Biomedicine
edited by **Hidetoshi Sato** (*Kwansei Gakuin University, Japan*), **Jürgen Popp** (*Friedrich-Schiller University Jena, Germany*), **Bayden R Wood** (*Monash University, Australia*) & **Yukihiro Ozaki** (*Kwansei Gakuin University, Japan*)

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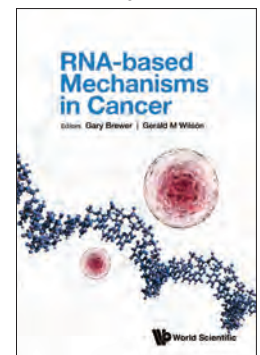
A Field Guide to Giant Clams of the Indo-Pacific
by **Mei Lin Neo** (*National University of Singapore, Singapore*)

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Nobel Lectures in Physiology or Medicine (2016 - 2020)
edited by **Bo Angelin** (*Karolinska Institutet, Sweden*)

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RNA-based Mechanisms in Cancer
edited by **Gary Brewer** (*Rutgers University, USA*), **Gerald M Wilson** (*University of Maryland, USA*)

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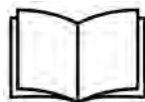
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- Medical Science
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BIOCHEMISTRY

REACTIVE SPECIES: MANIPULATIONS TOWARD DESIRED OUTCOMES IN BIOLOGICAL SYSTEMS

by **G K Suraishkumar** (*Indian Institute of Technology Madras, India*)

The fine balance in reactive species (RS) levels inside the cell, or redox homeostasis, is crucial for normal life. RS are molecules such as hydroxyl, superoxide, and others whose reaction rates are typically high. Further, RS are now accepted as the molecular mediators of stresses on cells. RS are also implicated in many diseases including cancer, cardiovascular diseases, and neurodegenerative diseases. In contrast to the popular view that RS are deleterious, this book discusses desirable outcomes from the manipulation of reactive species levels in the cells.

Readership: Graduate students, advanced undergraduate students, researchers and practitioners in the field on biological engineering, bio-processes, stress-related improvements, and related aspects.

188pp Jun 2024
 978-981-129-073-2 US\$88 £80
 978-981-129-074-9(ebook) US\$141 £130



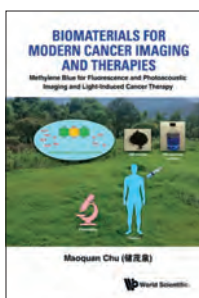
BIOMATERIALS FOR MODERN CANCER IMAGING AND THERAPIES

Methylene Blue for Fluorescence and Photoacoustic Imaging and Light-Induced Cancer Therapy
 by **Maoquan Chu** (*Tongji University, China*)

Methylene blue (MB) is a biocompatible and environmentally friendly material that has been widely used in clinical and biomedical research fields for over a century. In addition, it also has wide applications in other fields, such as dyeing and finishing industry, aquaculture industry, photocatalysis and food industry. This landmark publication is unique as it covers MB-mediated in vivo fluorescence, photoacoustic imaging and light-induced cancer therapy. The optical properties and photothermal effect of MB are also systematically described.

Readership: This book will be useful for undergraduate and postgraduate students, clinical doctors, basic research personnels, researchers and developers, and also technical non-specialists.

176pp May 2024
 978-981-127-769-6 US\$88 £80
 978-981-127-770-2(ebook) US\$141 £130



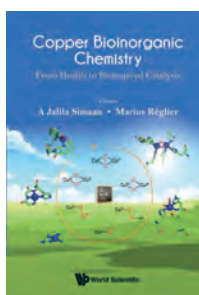
COPPER BIOINORGANIC CHEMISTRY

From Health to Bioinspired Catalysis
 edited by **A Jalila Simaan & Marius Réglie**
 (*Centre Nationale de la Recherche Scientifique, France & Aix Marseille Université, France*)

Bioinorganic chemistry is an interdisciplinary research field which centers on metals in biology. Over the past few decades, advances in chemistry, biology as well as in spectroscopic methods have shed light on the role of copper in human pathologies and allowed the growing discovery of copper-containing biological systems. Following this trend, much effort is being constantly channelled towards understanding these fundamental biological processes or enzymes. In addition, chemists are developing molecules to target copper or copper enzymes as therapeutic tools.

Readership: Masters students, graduate students and researchers in copper bioinorganic chemistry and biological chemistry.

272pp Aug 2023
 978-981-126-948-6 US\$98 £90
 978-981-126-949-3(ebook) US\$157 £145



MODERN SUSTAINABLE TECHNIQUES IN TOTAL SYNTHESIS OF BIOACTIVE NATURAL PRODUCTS

by **Sasadhar Majhi** (*Kazi Nazrul University, India*), **Bhubaneswar Mandal** (*Indian Institute of Technology Guwahati, India*)

Modern Sustainable Techniques in Total Synthesis of Bioactive Natural Products comprises five parts for green tools, such as ultrasonic waves, microwave heating, visible-light photochemistry, organic electrochemistry, and flow chemistry, along with 72 chapters for each bioactive molecule of natural origin. Each chapter explores the natural source, structure, systematic name, structural features, compound class, biological activity, conventional approaches for their chemical synthesis, and demerit(s) of conventional approaches (where applicable). Finally, critical features of total synthesis using modern sustainable techniques, including reaction types, synthetic strategy, and synthetic route utilizing modern sustainable tools for each bioactive natural product and secondary metabolites, are discussed brilliantly.

468pp May 2023
 978-981-126-868-7 US\$158 £145
 978-981-126-869-4(ebook) US\$253 £235



PEPTIDE AND PROTEIN ENGINEERING FOR BIOTECHNOLOGICAL AND THERAPEUTIC APPLICATIONS

edited by **Pierre Rousselot-Pailley & Olga Irazzo** (*Aix Marseille Université, France*)

This book aims to give an overview of the last developments in the field of peptide and protein engineering. It comprises a collection of chapters that span from the production of simple non-proteinogenic building blocks and peptidic scaffolds of different sizes and structures to more complex systems including peptide-based nanomaterials, enzymes and artificial metalloenzymes. Different strategies are described where chemical and biological tools have been developed and combined to attain the desired properties and sought functionalities.

Readership: Students and researchers in peptide and protein engineering, peptide-based nanotubes and nanomaterials, proteins, denovo peptide and protein design, artificial metalloenzymes and molecular dynamics simulations.

520pp Jan 2023
 978-981-126-165-7 US\$158 £145
 978-981-126-166-4(ebook) US\$253 £235



Title by Nobel Laureate

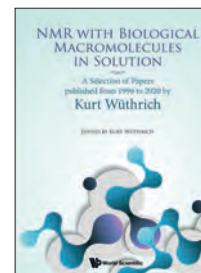
NMR WITH BIOLOGICAL MACROMOLECULES IN SOLUTION

A Selection of Papers Published from 1996 to 2020 by Kurt Wüthrich
 edited by **Kurt Wüthrich** (*ETH Zürich, Switzerland & The Scripps Research Institute, USA*)

"The collection of papers in NMR with Biological Macromolecules in Solution, published and edited by Kurt Wüthrich, showcases his scientific achievements in NMR of proteins that led to his Noble Prize. The monograph is enjoyable to read, full of details about the successes and controversies with colleagues and editors of scientific journals and rich on information about the individual steps that made his research career so successful. It also gives readers using or planning to use NMR in their research a useful guide into the vast literature on modern NMR techniques."

Werner Braun
**Professor Department of Biochemistry and Molecular Biology
 University of Texas**

264pp Nov 2021
 978-981-123-913-7(pbk) US\$58 £55
 978-981-123-578-8 US\$108 £100
 978-981-123-579-5(ebook) US\$173 £160



Bestselling Titles on **BIOCHEMISTRY****BIOLUMINESCENCE**

Chemical Principles and Methods
(3rd Edition)

edited by **Osamu Shimomura** (*The Marine Biological Laboratory, USA*) & **Iliia Yampolsky** (*Russian Academy of Sciences, Moscow, Russia*)

This book is the bible of bioluminescence and a must-read not only for the students but for those who work in various fields relating to bioluminescence. It summarizes current structural information on all known bioluminescent systems in nature, from well-studied ones to those that have been seldom investigated. This book remains an important source of chemical knowledge on bioluminescence and, since the second edition's publication in 2012, has been revised to include major developments in two systems: earthworm *Fridericia* and higher fungi whose luciferins have been elucidated and synthesized.

Readership: Biologists, chemists, analytical chemists, biomedical chemists; students in biochemistry.

556pp	Jun 2019	
978-981-3277-10-6	US\$200	£185
978-981-3277-11-3(ebook)	US\$320	£295

**Textbook**

Series in Structural Biology - Vol 9

STRUCTURE AND MECHANISM IN PROTEIN SCIENCE

A Guide to Enzyme Catalysis and Protein Folding
edited by **Alan Fersht** (*Cambridge*)

This book is a guide for advanced undergraduates, postgraduate and researchers to the fundamental principles in studying kinetics and mechanism of processes concerning proteins. It provides a rare broad overview that concentrates on fundamental principles and understanding underlying physics and chemistry. It is a single author text by someone who has direct experience in all of the areas covered.

656pp	Aug 2017	
978-981-3225-19-0(pbk)	US\$58	£55
978-981-3225-18-3	US\$148	£130

BIOENGINEERING**NATURAL PROTEIN-BASED STRATEGIES FOR ELECTROCHEMICAL ENERGY STORAGE**

by **Chenxu Wang & Weihong Zhong**
(*Washington State University, USA*)

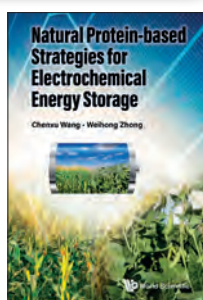
"Despite fruitful research on natural protein-based materials for electrochemical energy systems, there is no book with systematic and profound discussion on the subject, until now. This volume is a valuable and timely addition to current catalogues in biomaterials, energy systems and sustainability, and it is expected to be a delightful and also thought-provoking reading for students, educators and researchers from academia and industry."

Bin Li

Associate Professor, Wichita State University, USA

Readership: This book is a useful reference for academics, researchers and graduate students working in the field of energy storage, battery science, electrochemistry, natural products, protein engineering, and materials science.

300pp	May 2025	
978-981-128-384-0	US\$108	£100
978-981-128-385-7(ebook)	US\$173	£160

**BIOINFORMATICS****PROTEIN MUTATIONS**

Consequences on Structure, Functions, and Diseases

edited by **M Michael Gromiha** (*Indian Institute of Technology Madras, India*)

The main highlights of this book are the effects of protein mutations on its various functions such as aggregation, folding, stability, binding affinity, and diseases, as well as a wide range of applications such as database development, computational algorithms, and drug design. It will be a platform to provide the up-to-date information and latest developments in the field and will serve as a single resource to get the information on comparative studies to delineate these mutational effects on protein folding, stability, and interactions, and for understanding the molecular basis of diseases.

Readership: Graduate Students and Researchers in Bioinformatics and Computational Biology.

350pp	Sep 2024	
978-981-129-325-2	US\$138	£125
978-981-129-326-9(ebook)	US\$221	£205

RESHAPING EXPERIMENTAL ORGANIC RESEARCH WITH SMART IN SILICO TOOLS

Invitation to Artificial Intelligence-Equipped Organic Lab
by **Anatoly M Belostotskii** (*Bar-Ilan University, Israel*)

This book is the first to introduce the contemporary AI-driven computerization of organic laboratory. It is designed to be a basic practical guide that is organic chemist-friendly, dispensing with abstract treatments of the mathematical theory of machine learning, while strongly focusing on the recently developed mé lange of AI-carrying software that simplify and accelerate the planning of organic synthesis and structure elucidation. It will explain to organic, bioorganic, and natural product chemists what AI and its applicative approaches are, while techniques of these AI approaches will be schematically described.

Readership: Academics, researchers, post-docs and graduate students working in organic, bioorganic and medicinal chemistry in universities, colleges, research institutes, and the industry (including pharmaceutical companies).

350pp	Jun 2025	
978-981-128-167-9	US\$128	£120
978-981-128-168-6(ebook)	US\$205	£190

FIGHTING THE VIRUS

Disease Modeling and Cyber Security
by **Marc Mangel** (*University of Bergen, Germany & University of California, Santa Cruz, USA*)

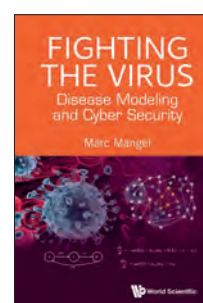
Many of the words used to describe disease ('infection', 'transmission', 'virus') are also used to characterize cyber security (for example: a computer is infected by a virus that can be transmitted to other current uninfected computers). This correspondence is much more than a convenient metaphor, and the aim of this book is to show how the models developed to understand the dynamics of infection, recovery, and possible infection in disease can be applied to understand attack, compromise, and recovery of components of a cyber system and how such attacks affect performance of the cyber system or its dependent enabled physical system.

Readership: This is a combination of research monograph and textbook, suitable for use in advanced undergraduate or graduate courses and also intended for established researchers (population biology of disease and in cyber security).

300pp	Sep 2025	
978-981-128-756-5	US\$108	£100
978-981-128-757-2(ebook)	US\$173	£160

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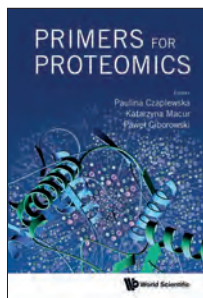
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Textbook

PRIMERS FOR PROTEOMICS

edited by **Paulina Czaplewsk, Katarzyna Macur** (University of Gdańsk, Poland & Medical University of Gdańsk, Poland) & **Paweł Ciborowski** (University of Nebraska Medical Center, USA)



This book contains examples written by internationally recognized experts applying proteomics and analysis applications of mass spectrometry in their everyday research. They dedicate this book to a broad audience of all scientists to encourage them to use the omics approach to investigate biological processes.

The first chapter is a short introduction to the basics of analytical chemistry. The following chapters describe high-throughput proteomic studies and how they are applied in various areas of biological and biomedical sciences, providing valuable insights into how biological systems work at the molecular level.

Readership: Researchers and graduate students in Mass spectrometry and Proteomics.

250pp **Aug 2024**
978-981-128-336-9 **US\$128** **£120**
978-981-128-337-6(ebook) **US\$205** **£190**

SYSTEMS MEDICINE FOR HUMAN SPACEFLIGHT

edited by **Mark Shelhamer** (Johns Hopkins University School of Medicine, USA), **Erik Antonsen** (Massachusetts General Hospital, USA)



"Systems Medicine for Human Spaceflight is a long overdue, landmark text whose timely publication will be a critical contribution to planning missions beyond Earth orbit. It clearly defines the scope of systems medicine and underscores the importance of environmental interactions while providing an overview of the critical elements of systems thinking in space medicine. ... The chapter authors have provided excellent evidence-based overviews of the critical issues and approaches needed for future long-duration missions."

David R Williams

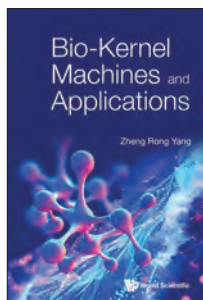
Former Director of the Space and Life Sciences Directorate, NASA Johnson Space Center, USA

Readership: Spaceflight and Medical professionals (aeromedical examiners, biomedical engineers, bioanalytics researchers, medical care). Students interested in space and medicine, at all levels.

368pp **Jun 2024**
978-981-128-768-8 **US\$138** **£125**
978-981-128-769-5(ebook) **US\$221** **£205-**

BIO-KERNEL MACHINES AND APPLICATIONS

by **Zheng Rong Yang** (University of Exeter, UK)



The book seeks to establish the fundamentals of the bio-kernel machines by presenting the basic principle and theory of the kernel machine and the various formats of kernel machines, such as string kernel machines adapted for biological applications. The book will also introduce several biological applications of the mutation matrices, demonstrating how mutation matrices can enhance the efficiency and biological relevance of machine learning models applied in specific biological problems.

Readership: Researchers and academic staff in the universities and research institutes who work in the area of machine learning and bioinformatics.

268pp **Mar 2024**
978-981-128-733-6 **US\$108** **£100**
978-981-128-734-3(ebook) **US\$173** **£160**

ARTIFICIAL INTELLIGENCE IN MEDICINE

A Practical Guide for Clinicians by **Campion Quinn** (Rockville Medical, LLC, USA)



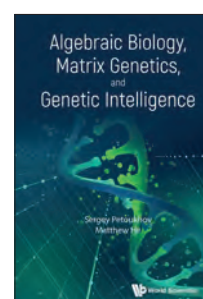
"Artificial Intelligence in Medicine" is a comprehensive guide exploring the transformative impact of artificial intelligence (AI) in healthcare. The book delves into the foundational concepts and historical development of AI in medicine, highlighting data collection, preprocessing, and feature extraction crucial for medical applications. It showcases the benefits of AI, such as accurate diagnoses and personalized treatments, while addressing ethical and regulatory considerations.

Readership: Sectors that would be interested in this book include: computer sciences, artificial intelligence, healthcare, academic, pharmaceutical, medical device, business, and healthcare administration and management.

356pp **Mar 2024**
978-981-128-456-4(pbk) **US\$68** **£65**
978-981-128-410-6 **US\$148** **£135**
978-981-128-411-3(ebook) **US\$237** **£220**

ALGEBRAIC BIOLOGY, MATRIX GENETICS, AND GENETIC INTELLIGENCE

by **Sergey Petoukhov** (Russian Academy of Sciences, Russia), **Matthew He** (Nova Southeastern University, USA)



"The book is highly topical and interesting. The two authors are very respected and diligent scientists with many years of research experience in the specified field. It is very much in the interest of the international interdisciplinary scientific community that the individual results of the authors, which have been published in several articles up to now, appear in book form, which can particularly clearly emphasize a kind of red thread in this important research area."

Elena Fimmel

Professor, Mannheim University of Applied Sciences, Germany

Readership: This highly interdisciplinary book will attract mathematicians, statisticians, computer scientists, and biologists working in all aspects of computational biology and bioinformatics.

616pp **Aug 2023**
978-981-127-825-9 **US\$178** **£165**
978-981-127-826-6(ebook) **US\$285** **£260**

COMPLETE GUIDE TO THE FRAGMENT MOLECULAR ORBITAL METHOD IN GAMESS

From One Atom to a Million, at your Service by **Dmitri G Fedorov** (National Institute of Advanced Industrial Science and Technology (AIST), Japan)



"It is rather timely to have a rigorous but user-oriented and accessible book for the fragment molecular orbital. The implementation within GAMESS with a clear description of how to invoke FMO options, practical tips on how to apply these, and concrete examples will be of great practical value in addressing computational materials problems in biology, chemistry, and physics. A comprehensive treatment of both fundamental and practical concerns in FMO are included: the use of various levels of quantum chemical theory within FMO, PIEDA, segmentation and fragmentation, effective potentials and grids, and massively scaling up the calculation size."

Kang Hway Chuan

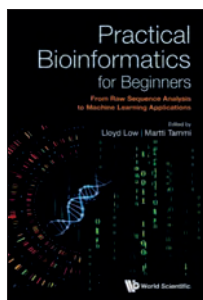
Associate Professor of Chemistry, National University of Singapore

328pp **Mar 2023**
978-981-126-362-0 **US\$118** **£110**
978-981-126-363-7(ebook) **US\$189** **£175**

PRACTICAL BIOINFORMATICS FOR BEGINNERS

From Raw Sequence Analysis to Machine Learning Applications
edited by **Lloyd Low** (University of Adelaide, Australia), **Martti Tammi** (Tanalink Sdn Bhd, Malaysia)

"This book contains a series of tutorials for a biologist who wants to learn to analyze large-scale sequence data. It covers the basics, as well as more advanced methods. It is a very practical guide with useful examples and it will provide a way for researchers to build a foundation in bioinformatic sequence analysis. I will recommend it to my group members."



Björn Andersson
Department of Cell & Molecular Biology, Karolinska Institutet

Readership: It is a necessary companion for undergraduates, graduate students, researchers and anyone interested in the exponentially growing field of bioinformatics.

268pp	Feb 2023	
978-981-125-898-5	US\$98	£90
978-981-125-899-2(ebook)	US\$157	£145

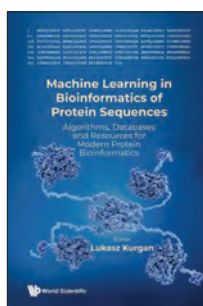
MACHINE LEARNING IN BIOINFORMATICS OF PROTEIN SEQUENCES

Algorithms, Databases and Resources for Modern Protein Bioinformatics
edited by **Lukasz Kurgan**

Machine Learning in Bioinformatics of Protein Sequences guides readers around the rapidly advancing world of cutting-edge machine learning applications in the protein bioinformatics field. Edited by bioinformatics expert, Dr Lukasz Kurgan, and with contributions by a dozen of accomplished researchers, this book provides a holistic view of the structural bioinformatics by covering a broad spectrum of algorithms, databases and software resources for the efficient and accurate prediction and characterization of functional and structural aspects of proteins.

Readership: Graduate students and researchers in computational biology, bioinformatics, structural biology and computer science areas.

380pp	Jan 2023	
978-981-125-857-2	US\$138	£125
978-981-125-858-9(ebook)	US\$221	£205



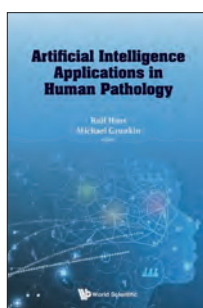
ARTIFICIAL INTELLIGENCE APPLICATIONS IN HUMAN PATHOLOGY

edited by **Ralf Huss** (University Hospital Augsburg, Germany), **Michael Grunkin** (Visiopharm, Denmark)

Artificial Intelligence Applications in Human Pathology deals with the latest topics in biomedical research and clinical cancer diagnostics. With chapters provided by true international experts in the field, this book gives real examples of the implementation of AI and machine learning in human pathology. Advances in machine learning and AI in general have propelled computational and general pathology research. Today, computer systems approach the diagnostic levels achieved by humans for certain well-defined tasks in pathology.

Readership: Advanced graduate and undergraduate students in the field of life sciences. Medical doctors and researchers in biomedicine and bioinformatics specialists, as well as practicing pathologists. Also valuable to Executives and decision makers in the diagnostic and biopharmaceutical industry.

336pp	Mar 2022	
978-1-80061-138-2	US\$118	£110
978-1-80061-139-9(ebook)	US\$189	£175



BIOMATHEMATICS

THE THERMOSTATED KINETIC THEORY APPROACH

Theory, Inverse Problems, and Models
by **Carlo Bianca** (ECAM-EPMI, France)

"The strength of this interdisciplinary book lies in the collection and systematization of the new modeling theory developed in the last ten years by the author and his collaborators, by coupling the kinetics of particles with nonequilibrium statistical mechanics concepts. Basic results on existence and uniqueness of the nonequilibrium stationary state are proven, as well as the convergence to this state. Inverse problems in this context are also addressed..."

Ezio Venturino
Professor of Mathematics, University of Turin, Italy

Readership: Researchers, lecturers, and graduate students in mathematical modelling, complex systems, nonequilibrium systems, mathematical physics, and applied mathematics courses and research fields.

300pp	Oct 2025	
978-981-126-755-0	US\$118	£110
978-981-126-756-7(ebook)	US\$189	£175

BIOMEDICAL SCIENCES

NEW MEDICAL TECHNOLOGY IN PATIENT CARE

A Physician's Guide
by **Campion Quinn** (Rockville Medical, LLC, USA)

In *New Medical Technology in Patient Care: A Physician's Guide*, readers are invited to explore the dynamic and transformative role of technology in modern healthcare. This comprehensive guide delves into the myriad ways in which cutting-edge technological advancements are reshaping the landscape of patient care, diagnosis, treatment, and healthcare management. The book opens with an insightful introduction into the burgeoning role of emerging technologies in healthcare. It sets the stage for an in-depth exploration of these innovations, emphasizing their clinically proven benefits and the pragmatic aspects of their integration into clinical practice, underpinned by a strong ethical framework.

300pp	Sep 2025	
978-981-128-914-9	US\$98	£90
978-981-128-915-6(ebook)	US\$157	£145

MANUFACTURE AND SUPPLY, SCIENCE AND REGULATION TOWARDS HIGH-QUALITY MEDICINAL PRODUCTS

by **Chong Hock Sia** (Health Sciences Authority, Singapore), **Lai Wah Chan** (National University of Singapore, Singapore)

"The book provides a critical overview on the quality and safety issues related to a variety of medicinal products including traditional and herbal medicines, health supplements to small molecules and biological products that have been recently developed in different therapeutic areas. It is of particular interest for university professors teaching pharmacology to students of pharmacy and medicine, to scientists and clinicians involved in drug development, and to regulators dealing with a large and growing number of pharmaceutical products."

Maurizio D'Incalci
Emeritus Professor of Pharmacology, Humanitas University, Italy

Readership: University professors and researchers, undergraduate and post-graduate students in pharmacy, pharmaceutical science, life sciences and related disciplines. Medicines regulators and pharmaceutical inspectors.

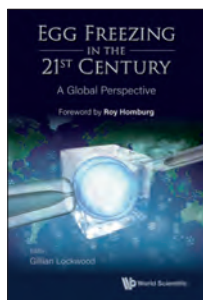
300pp	Feb 2025	
978-981-129-549-2	US\$118	£110
978-981-129-550-8(ebook)	US\$189	£175



EGG FREEZING IN THE 21ST CENTURY

A Global Perspective
 edited by Gillian Lockwood (CARE Fertility Tamworth, UK)

"Egg freezing has increased significantly over the past few years and is prominently discussed at conference meetings. A recent study showed websites of clinics gave poor information regarding the success of this technique and information provided was misleading. This book would provide up-to-date data for staff in clinics to inform patients accurately and give a useful review over best practices related to lab protocols. It is useful for the fertility sector."



Rachel Cutting MBE
 Director of Compliance and Information,
 Human Fertilisation and Embryology Authority, UK

Readership: Fertility practitioners, fertility counselors and therapists, IVF commissioners, companies considering offering egg freezing, scientifically literate women considering having egg freezing. Researchers, faculty, educators, graduate and advanced undergraduate students in medical fields.

260pp	Jun 2024	
978-981-125-300-3	US\$98	£90
978-981-125-301-0(ebook)	US\$157	£145

Textbook

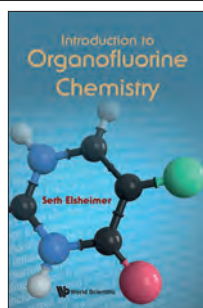
INTRODUCTION TO ORGANOFLUORINE CHEMISTRY

by Seth Elsheimer (University of Central Florida, USA)

This comprehensive and well-structured book is divided into seven sections of 28 chapters. Readers are first introduced to the privileged role and landmark developments of the ninth element, its physical chemistry, and its fascinating effects on reactive intermediates. The second half of the text covers the synthesis, reactions and analysis of organofluorine compounds. The astonishing ability of fluoroorganics to exert their importance in a plethora of fields is sketched out in the final segment.

Readership: For graduate students or advanced undergraduates in organic chemistry, as well as a reference book for academic and industrial researchers working in the interdisciplinary areas of pharmaceutical/medicinal chemistry, materials science, and agrochemicals.

300pp	May 2025	
978-981-127-633-0(pbk)	US\$58	£55
978-981-127-549-4	US\$108	£100
978-981-127-550-0(ebook)	US\$173	£160



THE FUTURE OF TECHNOLOGY IN MEDICINE

From Cyborgs to Curing Paralysis
 by Julian Gendreau (Johns Hopkins University, USA), Nolan J Brown (University of California Irvine, USA), Shane Shahrestani (University of Southern California, USA) & Ronald Sahyouni (University of California San Diego, USA)

In this book, the authors discuss these technological advancements of healthcare in 14 comprehensive chapters specifically designed to be read and understood by any individual interested in learning more about technology in medicine. Co-author, Nolan Brown has over 100 peer-reviewed publications in the neurosurgical and neuroengineering literature. Dr Shane Shahrestani MD, PhD, participated in the world's first portable stroke detection device utilizing magnetic fields. He currently has NIH grant funding for the device. Dr Ronald Sahyouni MD, PhD, has novel work in myoelectric prosthetic devices.

Readership: Interested lay public, medical, life sciences and engineering students.

296pp	Jun 2023	
978-981-127-641-5(pbk)	US\$38	£35
978-981-127-432-9	US\$98	£90
978-981-127-433-6(ebook)	US\$157	£145



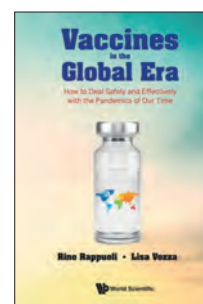
VACCINES IN THE GLOBAL ERA

How to Deal Safely and Effectively with the Pandemics of Our Time
 by Rino Rappuoli (GlaxoSmithKline Vaccines, Italy), Lisa Vozza (AIRC Foundation for Cancer Research, Italy)

"With SARS-COVID19 affecting the life of every person on this planet, it can hardly be surprising if there is a great demand to know more about vaccines and infectious diseases... This book, by Rino Rappuoli and Lisa Vozza, takes the knowledge of real experts in vaccines, immunology and infectious disease and helps the reader progress from early history through to the intricacies of how antibodies work, what PCR does, what an mRNA vaccine is, and how to make a vaccine... how they work, how we know that they are safe and so many other questions at a time when everyone feels like a vaccine expert (but isn't), then you should read this book."

David Salisbury
 Associate Fellow, Programme for Global Health,
 Royal Institute of International Affairs, Chatham House, London

268pp	Aug 2022	
978-1-80061-204-4(pbk)	US\$28	£25
978-1-80061-193-1	US\$68	£65
978-1-80061-194-8(ebook)	US\$109	£100



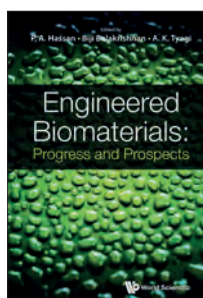
ENGINEERED BIOMATERIALS: PROGRESS AND PROSPECTS

edited by P A Hassa, Biji Balakrishnan & A K Tyagi (Bhabha Atomic Research Centre, India)

This book discusses various advanced therapeutic and diagnostic systems such as magnetic nanoparticle based hyperthermia and their surface functionalization techniques. Lipid-based nano delivery systems for psoriasis, irritable bowel syndrome and pain management, polyrotaxane polymers, wearable devices for sensing etc are also depicted in this book. The contents are designed in a manner that will be highly suited for academic researchers, clinicians and industrialists who wish to explore in the versatile field of biomaterials as it contains a wealth of valuable information that will be equally useful to both beginners as well as established researchers.

Readership: Graduate students and researchers in Bioengineering, Biomedical Engineering and Materials Science.

968pp	Sep 2023	
978-981-127-200-4	US\$228	£210
978-981-127-201-1(ebook)	US\$365	£335



BIOPHYSICS

Textbook

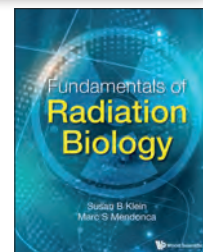
FUNDAMENTALS OF RADIATION BIOLOGY

by Susan B Klein (Indiana University, USA), Marc S Mendonca (Indiana University, USA & Purdue University, USA)

This book takes an unprecedented narrative approach to radiobiology; each chapter expands on the fundamentals surveyed previously to lead the reader steadily to a panorama of radiation biocomplexity. No biological event happens in isolation. Actions evoke reactions that alter structures and cause living systems to adapt. It also examines the components constituting mammalian radiation response machinery and correlates them with resultant physiological behaviors.

Readership: Medical students, radiologic technology students, cancer oncology researchers, medical physics residents, Physicists.

400pp	Feb 2023	
978-981-125-891-6(pbk)	US\$98	£90
978-981-125-765-0	US\$148	£135
978-981-125-766-7(ebook)	US\$237	£220



FEATURED BACKLIST

Textbook

THE RAINBOW AND THE WORM

The Physics of Organisms (3rd Edition)
by **Mae-Wan Ho** (*Institute of Science in Society, UK*)

This highly unusual book began as a serious inquiry into Schrödinger's question, "What is life?", and as a celebration of life itself. It takes the reader on a voyage of discovery through many areas of contemporary physics, from non-equilibrium thermodynamics and quantum optics to liquid crystals and fractals, all necessary for illuminating the problem of life. In the process, the reader is treated to a rare and exquisite view of the organism, gaining novel insights not only into the physics, but also into "the poetry and meaning of being alive."

Readership: Sixth-form and undergraduate students in physics and biology; biophysics, biochemistry and quantum mechanics undergraduates.

408pp	Aug 2008	
978-981-283-260-3(pbk)	US\$34	£28
978-981-283-259-7	US\$58	£48
978-981-283-261-0(ebook)	US\$98	£80

**FOOD WASTE VALORISATION**

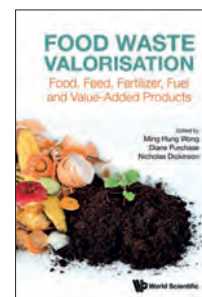
Food, Feed, Fertiliser, Fuel and Value-Added Products

edited by **Ming Hung Wong** (*The Education University of Hong Kong, China*), **Diane Purchase** (*Middlesex University, UK*) & **Nicholas Dickinson** (*Lincoln University, New Zealand*)

This timely volume comprises 18 chapters dealing with different aspects of food waste treatment and management in different parts of the world. These chapters explore the fundamentals, trends, and future opportunities for food waste composting and anaerobic digestion, as well as how food waste can be converted to single-cell protein, animal feeds, and fertiliser. This book also addresses various value-added products that can be generated. These include products such as chemicals, synthetic alternatives, nanocellulose, construction materials, and biodegradable fibres.

Readership: This volume will be a valuable reference to academics, postgraduate researchers, scientists and businesses engage in the areas of sustainability, waste valorisation and biocircular economy.

536pp	Aug 2023	
978-1-80061-288-4	US\$158	£145
978-1-80061-289-1(ebook)	US\$253	£235



BIostatistics

Series on Concrete and Applicable Mathematics - Vol 24

TRIGONOMETRIC AND HYPERBOLIC GENERATED APPROXIMATION THEORY

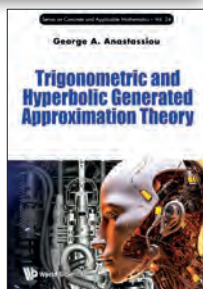
by **George A Anastassiou** (*The University of Memphis, USA*)

This monograph is a testimony of the impact over Computational Analysis of some new trigonometric and hyperbolic types of Taylor's formulae with integral remainders producing a rich collection of approximations of a very wide spectrum.

This volume covers perturbed neural network approximations by themselves and with their connections to Brownian motion and stochastic processes, univariate and multivariate analytical inequalities (both ordinary and fractional), Korovkin theory, and approximations by singular integrals (both univariate and multivariate cases).

Readership: Graduate students and researchers interested in approximation theory, from the fields of Pure Mathematics, Statistics, Engineering and Computer Science.

848pp	Jan 2025	
978-981-129-385-6	US\$198	£180
978-981-129-386-3(ebook)	US\$317	£290

**BIOTECHNOLOGY**

Scientific Advancement versus Public Safety
by **Conrad B Quintyn** (*Bloomsburg University of Pennsylvania, USA*)

"This is a book for which there is a substantial market in the form of academic and, more importantly, general readership. There is no question that the author has the ability to write such a book. Manifestly, he has done so already ... The author knows his subject and writes about it exceedingly well ... The subject merits timely publication and this person undoubtedly has the ability to deliver a work of which any press could be proud."

Robert B Eckhardt, PhD
Professor of Developmental Genetics & Evolutionary Morphology, Penn State University

Readership: Students, professionals: biomedical scientists, social scientists, ethicists, health care providers, policymakers, regulators, research funders, faith healers, industry representatives, patients and their families.

392pp	Nov 2022	
978-981-125-925-8	US\$128	£120
978-981-125-926-5(ebook)	US\$205	£190



BIOTECHNOLOGY

FOOD SECURITY ISSUES IN ASIA

edited by **Paul Teng** (*Nanyang Technological University, Singapore*)

"Food security is a worldwide problem at this juncture, but represents a special challenge in Asia, especially in city states such as Singapore that depend almost entirely on imports. Poorer nations in the region are also at risk due to rising prices and the scarcity of inputs. Emerging technologies in synthetic biology could be part of the solution. This book frames the problems and addresses the investments needed to drive such technologies.



Ronnie Coffman
International Professor Emeritus of Plant Breeding and Genetics, Cornell University, USA

816pp	Mar 2024	
978-981-127-828-0	US\$198	£180
978-981-127-829-7(ebook)	US\$317	£290

CANCER RESEARCH

OPTICAL SPECTROSCOPY AND IMAGING FOR CANCER DIAGNOSTICS

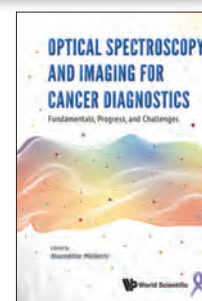
Fundamentals, Progress, and Challenges

edited by **Noureddine Melikechi** (*University of Massachusetts Lowell, USA*)

This is an interdisciplinary book that presents the applications of novel laser spectroscopy and imaging techniques for the detection of cancers recently developed by some of the world's most renowned researchers. The book consists of three parts and a total of 16 chapters. Each chapter is written by leading experts who are actively seeking to develop novel spectroscopic and analytical methods for cancer detection and diagnosis.

Readership: Graduate students and researchers in cancer screening and diagnostics, laser spectroscopy, biophotonics and biomedical sciences.

560pp	Feb 2023	
978-981-125-895-4	US\$168	£155
978-981-125-896-1(ebook)	US\$269	£245

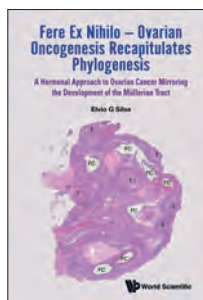


FERE EX NIHILLO — OVARIAN ONCOGENESIS RECAPITULATES PHYLOGENESIS

A Hormonal Approach to Ovarian Cancer Mirroring the Development of the Müllerian Tract

by **Elvio G Silva** (*University of Texas MD Anderson Cancer Center, USA*)

"The author's insatiable thirst for knowledge, deep thinking and persistence to truly understand the origin of ovarian cancer cells coupled with his compassion to improve the survival of patients with ovarian cancer led him to this incredible work of research. This book will be of great value to researchers as it will contribute to better understanding of the development of hormone-related cancers."



Nour Sneige
Clinical Professor, University of Texas MD
Anderson Cancer Center, USA

Readership: Pathologists, oncologists, gynecologists, cancer researchers.

200pp	Jun 2025	
978-981-129-510-2	US\$98	£90
978-981-129-511-9(ebook)	US\$157	£145

CELL / MOLECULAR BIOLOGY / STRUCTURAL BIOLOGY

RAMAN SPECTROSCOPY IN HUMAN HEALTH AND BIOMEDICINE

edited by **Hidetoshi Sato** (*Kwansei Gakuin University, Japan*), **Jürgen Popp** (*Friedrich-Schiller University Jena, Germany*), **Bayden R Wood** (*Monash University, Australia*) & **Yukihiro Ozaki** (*Kwansei Gakuin University, Japan*)

"The book is very interesting and will provide a different scope as compared with other books in the literature. It will be a good general book for people working on Raman spectroscopy of biomedical and health sciences. The Editors are top scientists in their own fields."



Zexiang Shen
Professor, Nanyang Technological University, Singapore

Readership: Academics, researchers, lecturers, and graduate students in spectroscopy and data science. Doctors and allied health professionals will also be interested.

656pp	Oct 2023	
978-981-126-460-3	US\$178	£165
978-981-126-461-0(ebook)	US\$285	£260

Textbook

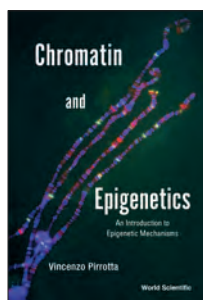
CHROMATIN AND EPIGENETICS

An Introduction to Epigenetic Mechanisms by **Vincenzo Pirrotta** (*Rutgers University, USA*)

This book is an introduction to epigenetics, a controversial term that denotes the mechanisms that instruct the genome on how to express the purely genetic information that encodes proteins. Starting with the discovery of repressor proteins in the 1960s, epigenetics evolved into a kind of user manual for the genetic information, telling the genome if, when, how much and in what cells to read genes. Advances in epigenetics in the past 15 years have revealed how it lies at the heart of virtually every branch of biological and medical sciences.

Readership: For college juniors or seniors with an interest in the way current advances in genomics and epigenetics.

524pp	Jul 2023	
978-981-125-890-9(pbk)	US\$88	£80
978-981-125-762-9	US\$158	£145
978-981-125-763-6(ebook)	US\$253	£235



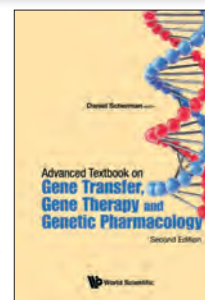
FEATURED BACKLIST

ADVANCED TEXTBOOK ON GENE TRANSFER, GENE THERAPY AND GENETIC PHARMACOLOGY

Principles, Delivery and Pharmacological and Biomedical Applications of Nucleotide-Based Therapies (2nd Edition)

edited by **Daniel Scherman** (*National Scientific Research Center (CNRS), France*)

636pp	Sep 2019	
978-1-78634-705-3(pbk)	US\$88	£80
978-1-78634-687-2	US\$229	£210
978-1-78634-688-9(ebook)	US\$366	£335



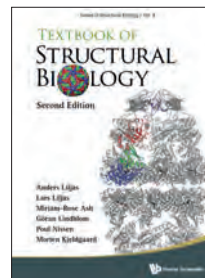
Textbook

Series in Structural Biology - Vol 8

TEXTBOOK OF STRUCTURAL BIOLOGY (2ND EDITION)

by **Anders Liljas** (*Lund University, Sweden*), **Lars Liljas** (*Uppsala University, Sweden*), **Miriam-Rose Ash** (*The University of Sydney, Australia*), **Göran Lindblom** (*Umeå University, Sweden*), **Poul Nissen & Morten Kjeldgaard** (*Aarhus University, Denmark*)

612pp	Jan 2017	
978-981-3142-47-3(pbk)	US\$95	£79
978-981-3142-46-6	US\$178	£148
978-981-3142-48-0(ebook)	US\$285	£235



LIVING RAINBOW H₂O

by **Mae-Wan Ho** (*Institute of Science in Society, UK*)

352pp	Aug 2012	
978-981-4390-89-7(pbk)	US\$48	£40
978-981-4390-90-3(ebook)	US\$98	£80



EVOLUTION BIOLOGY

LIFE ON EARTH-LIKE PLANETS

Gaia and Her Sisters

by **Gerald E Marsh, retired** (*Argonne National Laboratory, USA*)

From its ancient Greek roots to Lovelock's groundbreaking 1979 book, the concept of Gaia has evolved to depict Earth as a single, intricate organism sustaining life through the interplay of its organic and inorganic elements. From the Hadean epoch, where life's emergence radically transformed our planet, to the present, Earth stands as our sole model for understanding life's potential on other Earth-like worlds. While the lifeforms that evolve on Earth-like planets would not necessarily be identical to those on Earth, they must satisfy the same constraints.

Readership: Interested members of the public and academia.

200pp	Jan 2025	
978-981-129-507-2	US\$88	£80
978-981-129-508-9(ebook)	US\$141	£130

IRON-SULFUR CLUSTERS AND PROTEINS

Molecular Biology and Applications

by **Huangen Ding** (*Louisiana State University, USA*)

This book will summarize the significance of iron-sulfur clusters in evolution, healthy metabolic function and dysfunction, and the exciting discoveries of iron-sulfur proteins in diverse physiological pathways. The text, written by one of the world's leading experts on iron-sulfur science, is designed for advanced students and professionals in biochemistry, molecular biology and physiology.

Readership: Upper undergraduate/graduate students, researchers and lecturers/professors involved in the fields of Biochemistry, Molecular Biology, Physiology and Bioinorganic Chemistry.

250pp	May 2025	
978-981-126-477-1	US\$98	£90
978-981-126-478-8(ebook)	US\$157	£145

FISH & MARINE BIOLOGY

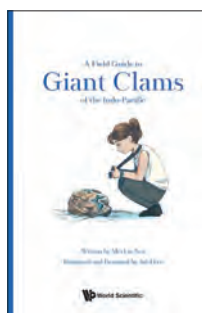
A FIELD GUIDE TO GIANT CLAMS OF THE INDO-PACIFIC

by **Mei Lin Neo** (National University of Singapore, Singapore)

This book introduces readers to the giant clam's biology, taxonomy and systematics, ecological and cultural significance, threats and challenges, and conservation solutions. The highlight of this book is the species identification guide containing descriptions of 12 known giant clam species accompanied by accurate hand-drawn shell illustrations and live photographs of specimens for comparison. Detailed information is summarised in a visual key on the distinctive features of the individual species, with notes on their ecology, geographic distribution, taxonomy and morphology.

Readership: Academic researchers and conservation managers working on the giant clams, scuba divers and aquarium hobbyists. Reference book in libraries for general readers to gain general knowledge of marine wildlife.

216pp Jun 2023
 978-981-127-417-6 US\$88 £80
 978-981-127-418-3(ebook) US\$141 £130



Textbook

MATHEMATICS FOR BIOSCIENCES

From Theory to Worked Examples and Applications by **Elsbeth F Garman** (University of Oxford, UK), **Nicola Laurieri** (University of Oxford, UK)

Mathematics for Biosciences aims to bridge the gap among students in the Biosciences between those who are equipped with mathematical training, and those without. It is carefully curated to provide those students who did not study maths to a higher level in secondary school with the relevant mathematical skills and tools required for the successful understanding of their chosen discipline within the Biosciences.

Readership: It is suitable for students' self-study, as a problems-setting resource for their tutors, and as a mathematics refresher for postgraduate and postdoctoral researchers.

350pp Oct 2024
 978-1-80061-608-0 (pbk) US\$58 £55
 978-1-80061-603-5 US\$128 £120
 978-1-80061-604-2 (ebook) US\$205 £190

IN THE SHADOW OF THE NOBEL PRIZE

by **Gösta Gahrton** (Karolinska Institutet, Sweden)

In the Shadow of the Nobel Prize presents researchers that have been instrumental in the modern development of medicine, focusing on the fields of clinical hematology, cancer research and transplantation. Gösta Gahrton tells stories of meetings with researchers that he thinks have been worthy of the Nobel Prize, but who have not received it, without revealing anything that has been discussed in the Nobel committee, of which he was a member for 10 years, thus obeying the 50-year secrecy rule.

Readership: Students and researchers in Life Science/Biology and Medicine, Hematologists, Oncologists, Immunologists, Microbiologists, Pharmacologists, Infectious Disease researchers, Historians of biology, Historians of medicine, Historians of science.

330pp Dec 2024
 978-981-129-535-5 US\$108 £100
 978-981-129-536-2(ebook) US\$173 £160

GENERAL LIFE SCIENCES

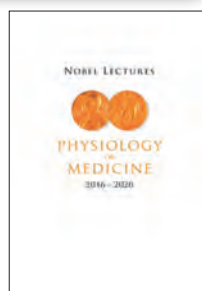
NOBEL LECTURES IN PHYSIOLOGY OR MEDICINE (2016 – 2020)

edited by **Bo Angelin** (Karolinska Institutet, Sweden)

Physiology or medicine is the third prize category Alfred Nobel mentioned in his will. Nobel had an active interest in medical research. He came into contact with Swedish physiologist Jöns Johansson through Karolinska Institutet around 1890. Johansson worked for a brief period in Nobel's laboratory in Sevran, France during the same year. The Nobel Prize in Physiology or Medicine is awarded by the Nobel Assembly at Karolinska Institutet. This volume is a collection of the Nobel lectures delivered by the Nobel laureates, together with their biographies and the presentation speeches for the period 2016 – 2020.

Readership: Biologists, biochemists and medical scientists.

552pp Sep 2024
 978-981-126-063-6 US\$178 £165
 978-981-126-064-3(ebook) US\$285 £260



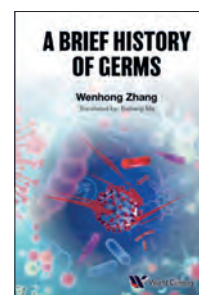
A BRIEF HISTORY OF GERMS

by **Wenhong Zhang** (Huashan Hospital of Fudan University, China) Translated by: **Bailiang Ma** (Shanghai Ocean University, China)

This book introduces readers to the history and discovery of viruses and bacteria, provides an accessible overview of how several major pandemics have influenced the society and how vaccines and antibiotics were developed. With colorful illustrations, it narrates the fascinating stories behind 17 common infectious diseases. From this book, you will learn about pathogenic characteristics, main symptoms, transmission routes, as well as prevention and control strategies. By highlighting the difficulties in the struggle against infectious diseases, the book pays homage to the efforts, the scientific spirit and the great contributions of scientists. With the pandemic still raging around the globe, it is hoped that this book will broaden people's horizon, arouse their interest and strengthen their confidence.

Readership: Students and anyone interested in science.

170pp Jan 2025
 978-1-945552-12-0 US\$38 £35
 978-1-945552-13-7(ebook) US\$98 £90

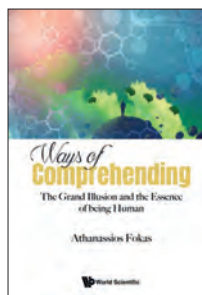


WAYS OF COMPREHENDING

The Grand Illusion and the Essence of being Human

by **Athanassios Fokas** (University of Cambridge, UK & University of Southern California, USA)

"In this exceptional book, Fokas takes a deep dive into the underlying principles determining the function of the brain and uses them to explain complex human capabilities, such as ideas and art. Then, remarkably, he goes beyond, providing an understanding of consciousness. His work covers a vast wealth of knowledge, including advanced concepts, such as retinal implants. As we enter the era of more and more brain machine interfaces, whether through wearable or implantable devices, this book will undoubtedly be a must-read resource, as it provides deep insight into by covering the fields of medicine, engineering, and mathematics."



Mark Humayun

NAM, NAE, National Medal of Technology and Innovation
 University Professor, USC Eye Institute, USA

420pp Aug 2024
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 978-1-80061-513-7 US\$88 £80
 978-1-80061-514-4(ebook) US\$141 £130

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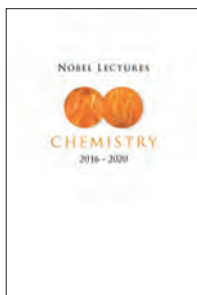
NOBEL LECTURES IN CHEMISTRY (2016 – 2020)

edited by **Sven Lidin** (*Lund University, Sweden*)

Mentioned as the second prize category in his will, Chemistry was the most important science for Alfred Nobel's own work. The development of Nobel's inventions as well as the industrial processes he employed were based upon chemical knowledge. This volume is a collection of the Nobel lectures delivered by the Nobel laureates, together with their biographies and the presentation speeches for the period 2016 – 2020. Each Nobel lecture is based on the work for which the laureate was awarded the Nobel Prize.

Readership: Chemists and scientists.

536pp Jun 2024
978-981-126-057-5 US\$158 £145
978-981-126-058-2(ebook) US\$253 £235



EVALUATING A PANDEMIC

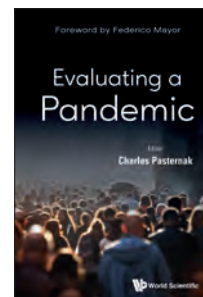
edited by **Charles Pasternak** (*Oxford International Biomedical Centre, UK*)

"Written by key actors on the frontlines of the response to COVID-19, this book critically addresses the key issues of the continuing pandemic, while providing precious recommendations on how to prepare and respond better to future epidemics."

Sir Peter Piot, EU Chief Scientific Advisor (Epidemics)
Handa Professor of Global Health,
London School of Hygiene & Tropical Medicine, UK

Readership: All stakeholders involved in the COVID-19 response (scientists, clinicians, psychologists, economists, bureaucrats, politicians). The book will also be of interest to historians and sociologists, as well as to the general reader.

220pp Aug 2023
978-981-126-281-4 US\$78 £70
978-981-126-282-1(ebook) US\$125 £115



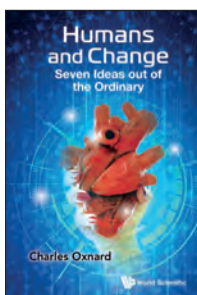
HUMANS AND CHANGE

Seven Ideas out of the Ordinary
 by **Charles Oxnard** (*University of Western Australia, Australia*)

Many people today deny the idea of Human Change (especially when the word 'evolution' is used). Many others, accepting that we have changed in the past, do not see change as still occurring. My ideas (challenges) are: not only that we are still changing, but that we are changing ever more rapidly, and in new ways. Is Homo sapiens (vainly named, wise human) already in the process of becoming Homo sapientior (wiser human)?

Readership: General interest, general and popular science, educated interested lay-persons, unconventional educators, the education profession itself, students interested in and bound for high schools, colleges, universities and beginning careers.

244pp Mar 2024
978-981-128-390-1(pbk) US\$38 £35
978-981-128-308-6 US\$88 £80
978-981-128-309-3(ebook) US\$141 £130



SCIENCE, POLITICS, STEM CELLS AND GENES

California's War on Chronic Disease
 by **Don C Reed** (*Americans for Cures Foundation, USA*)

"... the book is a great read for anyone who wants to learn more about stem cell research or medical innovation. It is not only informative and educational, but also entertaining and inspirational. It is a book that celebrates the triumph of science over disease, and the triumph of human spirit over adversity."



Online Book Club

Readership: Stem cell researchers; patient advocates, sickle-cell sufferers, students, science teachers, scientists in biomed field, parents of children with disabilities, young people wanting a career in biomed.

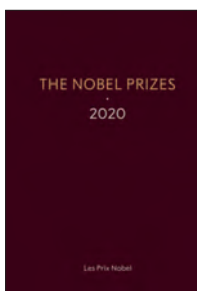
336pp Apr 2023
978-981-126-214-2(pbk) US\$58 £55
978-981-126-141-1 US\$118 £110
978-981-126-142-8(ebook) US\$189 £175

THE NOBEL PRIZES 2020

edited by **Karl Grandin** (*The Royal Swedish Academy of Sciences, Stockholm, Sweden*)

The Nobel Prizes is the official yearbook of the Nobel Foundation. This edition provides extensive information about the 2020 laureates: their Nobel Prize lectures and their autobiographies, as well as presentation speeches and background about the Nobel festivities.

404pp Apr 2024
978-981-129-026-8(pbk) US\$58 £55
978-981-129-010-7 US\$148 £135
978-981-129-011-4(ebook) US\$237 £220



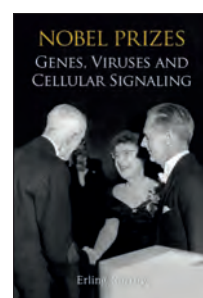
NOBEL PRIZES

Genes, Viruses and Cellular Signaling
 by **Erling Norrby** (*The Royal Swedish Academy of Sciences, Sweden*)

"In this, the fifth in a series of volumes, Erling Norrby takes us on an in-depth tour of the documents and the underlying science for the 1969 to 1971 Nobel prizes in physiology or medicine. Elucidating both the scientific discoveries themselves, as well as the evaluations by the committee, often over a period of some years, we learn about the identification of fundamental biological processes such as the replication and genetic structure of viruses (1969), the release, storage and inactivation of neurotransmitters (1970) and a general mechanism of hormone action (1971). For anyone interested in the process of biological or medical scientific discovery, reading this book will be like going on a delightful, stimulating and highly educational tour led by an extraordinarily knowledgeable guide."

Robert J Lefkowitz
Nobel laureate in Chemistry, 2012

460pp Nov 2022
978-981-126-213-5(pbk) US\$68 £65
978-981-126-132-9 US\$158 £145
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FEATURED BACKLIST

THE STORY OF OUR LIVES

Homo sapiens' Secrets of Success
by **Liat Ben David** (*The Davidson Institute - the Educational Arm of the Weizmann Institute of Science, Israel*)

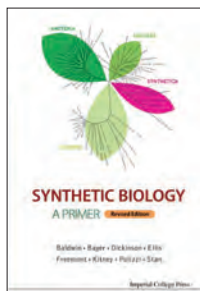
244pp May 2022
978-981-124-852-8(pbk) US\$28 £25
978-981-124-734-7 US\$48 £45
978-981-124-735-4(ebook) US\$98 £90



SYNTHETIC BIOLOGY — A PRIMER (REVISED EDITION)

Contributions by: **Geoff Baldwin**, Contributions by: **Travis Bayer, Robert Dickinson, Tom Ellis, Paul S Freemont, Richard I Kitney, Karen Polizzi, Guy-Bart Stan** (*Imperial College London, UK*)

196pp Oct 2015
978-1-78326-879-5(pbk) US\$36 £30
978-1-78326-878-8 US\$70 £58
978-1-78326-880-1(ebook) US\$112 £95



HOW TO READ AND CRITIQUE A SCIENTIFIC RESEARCH ARTICLE

Notes to Guide Students Reading Primary Literature (with Teaching Tips for Faculty Members)

by **Foong May Yeong** (*NUS, Singapore*)

116pp Jan 2014
978-981-4579-16-2(pbk) US\$28 £23
978-981-4579-17-9(ebook) US\$98 £80



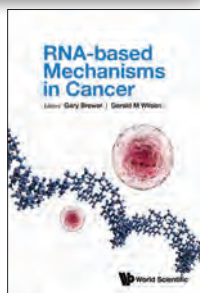
GENETICS AND GENOMICS

RNA-BASED MECHANISMS IN CANCER

edited by **Gary Brewer** (*Rutgers University, USA*), **Gerald M Wilson** (*University of Maryland, USA*)

This compendium of chapters from experts in the field is essential reading for anyone interested in the myriad ways that RNAs contribute to tumorigenesis: from graduate students, researchers, and clinical scientists interested in mRNA processing and translation, RNA-binding proteins that promote turnover/stability of specific mRNAs, how small noncoding RNAs control inflammation and signaling, roles of the epitranscriptome, and future and emerging RNA-based.

512pp Oct 2023
978-981-124-865-8 US\$158 £145
978-981-124-866-5(ebook) US\$253 £230



Textbook

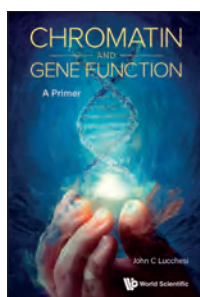
CHROMATIN AND GENE FUNCTION

A Primer

by **John C Lucchesi** (*Emory University, USA*)

The purpose of this primer is to provide students, teachers as well as academic and industry researchers with a succinct account of the chemical and structural features of chromatin and the role that these features play in the maintenance and function of the genetic material. Dr Lucchesi, provides an easily opened window into the role that the complex of proteins and nucleic acids that are associated with the DNA play in mediating gene expression and in responding to environmental circumstances.

164pp Jun 2023
978-981-125-893-0(pbk) US\$48 £45
978-981-125-843-5 US\$88 £80
978-981-125-844-2(ebook) US\$141 £130



MICROBIOLOGY

ENHANCED PHOTODYNAMIC THERAPY

(In 2 Volumes)

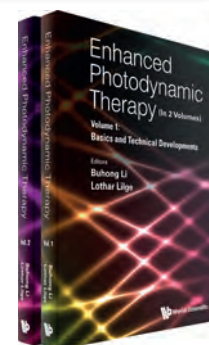
Volume 1: Basics and Technical Developments

Volume 2: Biology and Advancements to Clinical Translation

edited by **Buhong Li** (*Hainan University, China*), **Lothar Lilje** (*University of Toronto, Canada & Princess Margaret Cancer Centre, Canada*)

Photodynamic therapy utilizes photosensitizers together with irradiating light of specific wavelengths interacting with oxygen to generate cytotoxic reactive oxygen species, in particular singlet oxygen, for clinical treatment of several malignant and non-malignant pathologies. Recently, enhanced photodynamic therapy was successfully achieved by using new light sources, novel functional nano-photosensitizers, oxygen supply and synergistic therapy.

772pp Aug 2024
978-981-129-963-6(Set) US\$218 £200
978-981-129-370-2(Set)(ebook) US\$349 £320



INFLUENZA VIRUS

The Inevitable Enemy

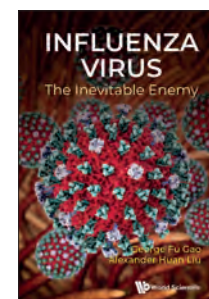
by **George Fu Gao** (*Chinese Center for Disease Control and Prevention, China & Chinese Academy of Sciences, China*),

Alexander Huan Liu (*University of Science and Technology of China, China & State Key Laboratory of Virology, China*)

This book introduces the past and present life of the influenza virus in a light-hearted way, leading the reader to review the past from the history of the flu, the development of the flu, human immunity and health, impacts on society and the country. Through touching stories, illustrations and diagrams, it tells the great discoveries and related advances in science and technology, introduces medical knowledge related to influenza, and reviews the medical effectiveness in preventing influenza, thus displaying the ongoing battle between humans and the flu virus.

Readership: General Public.

248pp Oct 2023
978-981-125-621-9 US\$88 £80
978-981-125-622-6(ebook) US\$141 £130



COVID CHAOS

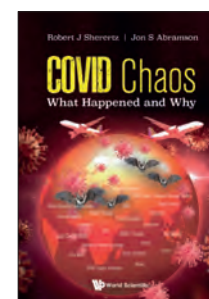
What Happened and Why

by **Robert J Sherertz** (*Wake Forest School of Medicine, USA*), **Jon S Abramson** (*Wake Forest School of Medicine, USA*)

The aim of the book is to give the reader some insight into the global impact of the SARS-CoV-2 outbreak during the first two years, from multiple perspectives (patient, healthcare provider, global citizen, public health, economic, geopolitical). An attempt was also made to understand how SARS-CoV-2 caused disease, both its pathogenesis at the individual patient level, and globally, as to how it was so successful at causing a pandemic and how it compares with other organisms capable of causing outbreaks, epidemics and pandemics

Readership: Academia: medicine, infectious disease, microbiologists, virologists, epidemiologists, public health, nursing; industry: vaccines, drugs, diagnostic testing, healthcare workers, general public, nonfiction readers.

548pp May 2023
978-981-126-560-0(pbk) US\$58 £55
978-981-126-457-3 US\$148 £135
978-981-126-458-0(ebook) US\$237 £220

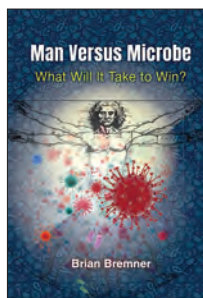


MAN VERSUS MICROBE

What Will It Take to Win?

by **Brian Bremner** (Bloomberg LP, UK)

"Man Versus Microbe is an inspiring exploration into biology and the unlimited opportunity it presents for our collective future. The technology to enable a brighter future with biology exists, now the world needs bold leadership; leadership that can bring together the best in science, business, and government to improve the climate and food security, and potentially avoid future pandemics. Brian Bremner successfully brings this struggle to life through this insightful book."



Ester Baiget

President and Chief Executive Officer of Novozymes A/S

Readership: General readership interested in infectious diseases, microbiology, biosecurity, astrobiology, genetics, personalized medicine, food security and climate change. Also of interest to business-minded readers and policymakers.

324pp	May 2022	
978-1-80061-120-7(pbk)	US\$28	£25
978-1-80061-113-9	US\$68	£65
978-1-80061-114-6(ebook)	US\$109	£100

NATURAL PRODUCT RESEARCH

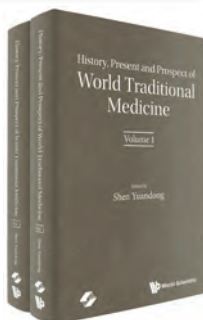
HISTORY, PRESENT AND PROSPECT OF WORLD TRADITIONAL MEDICINE (IN 2 VOLUMES)

edited by **Yuandong Shen** (Shanghai University of Traditional Chinese Medicine, China)

In this book, the authors seek to review and summarize the history, current state, and future potential of mainstream traditional medicine worldwide, as well as promote the integration of traditional and conventional medicine, serving as a valuable reference for policymakers, academic institutions, and stakeholders. This book encompasses nine chapters, covering Ayurveda, chiropractic, European Traditional Herbal Medicine, Greco-Arab and Islamic Herbal Medicine, Homeopathy, Japanese Kampo, Korean Medicine, Traditional Chinese Medicine, and Thai Medicine.

Readership: Policy makers, academics, and stakeholders.

824pp	Jan 2024	
978-981-128-710-7(Set)	US\$298	£275
978-981-128-217-1(Set)(ebook)	US\$477	£440



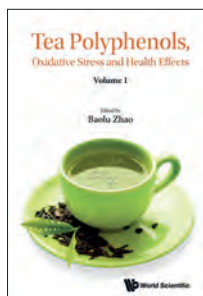
TEA POLYPHENOLS, OXIDATIVE STRESS AND HEALTH EFFECTS (IN 2 VOLUMES)

edited by **Baolu Zhao** (Chinese Academy of Sciences, China)

This book focuses on the properties and structural characteristics of tea polyphenols, and systematically describes the biological functions of tea polyphenols, especially the free radicals scavenging and antioxidant effects of tea polyphenols, regulation of oxidative stress, protection of nerve cells, anticancer effects, strengthening body immunity, preventing cardiovascular and cerebrovascular diseases, anti-inflammatory effects, reducing blood lipid and blood glucose atherosclerosis, myocardial protection, its role in Alzheimer's disease and Parkinson's disease, anti-aging properties, improving memory, anti-radiation effects, etc.

Readership: Scientific researchers in free radical, biology, chemistry, and medicine. Teachers and students of colleges and universities in relevant majors. Technicians engaged in the research and development of free radicals and antioxidants.

1024pp	Nov 2023	
978-981-127-420-6(Set)	US\$378	£350
978-981-127-421-3(Set)(ebook)	US\$605	£555



NEUROBIOLOGY

CHRONIC PAIN

New Molecular Insights into Pain and Treatment

by **Min Zhuo** (University of Toronto, Canada)

This book successfully explores cellular and molecular mechanisms of chronic pain based on recent basic neurobiological investigations. By focusing on major breakthroughs in basic neurosciences, it is believed to contain the promise for future new pain drug discovery. In addition, it reviews and validates animal models developed for studying basic mechanisms of pain and chronic pain, and the current medicine used to treat chronic pain as well as alternative pain treatment.

Readership: Neuroscientists, medical students, pain researchers, nurses, doctors, and drug developers.

340pp	Oct 2023	
978-981-4324-52-6	US\$128	£120
978-981-4324-53-3(ebook)	US\$205	£190



PLANT BIOLOGY

GROW YOUR OWN MEDICINE

Edible Healing Plants in your Garden

by **Hwee Ling Koh, Glenis Yi Jing Lim** (National University of Singapore, Singapore), **Marcus Xiu Ren Wong & Chay Hoon Tan** (National University of Singapore, Singapore)

This book is a compilation of up to date information of carefully curated 30 medicinal plants, many of which are also eaten as food. Information on how to grow and when to harvest is also included.

For each plant, information on scientific name, common name, origin, phytoconstituents, medicinal uses, pharmacological activities, clinical trials (if any), dosage (if any), adverse reactions, toxicity, contraindications, precautions, drug-herb interactions, uses as food, growth conditions and cultivation and harvesting is collated.

Readership: Readers interested in Botany, Life Sciences, Natural Sciences, Pharmacy, Pharmaceutical Science, Medicine, Nursing, Dentistry, Healthcare, Preventive health, Biomedical Science, Alternative Medicine, Natural products.

124pp	Apr 2024	
978-981-128-803-6(pbk)	US\$28	£25
978-981-128-786-2	US\$58	£55
978-981-128-787-9(ebook)	US\$98	£90



LIVER CANCER AND PHYTOMEDICINE

Chemoprevention, Chemo Sensitization and Chemotherapy Strategies

edited by **Lekshmi R Nath** (Amrita Vishwa Vidyapeetham, India), **Gautam Sethi** (National University of Singapore, Singapore) & **B S Vinod** (Sree Narayana College, India)

Liver Cancer and Phytomedicine systematically explores the potential of phytomedicines across three fundamental aspects of cancer management: prevention, sensitization, and therapy. This comprehensive book provides an extensive overview of the potential of important phytomedicines in managing liver cancer, encompassing areas such as prevention, sensitization therapy, modulation of gut microbiota, immunotherapy, and the emergence of phytonanomedicine. It serves as an invaluable resource for researchers and students in life sciences, biotechnology, and pharmaceutical sciences, offering insights into plant-derived therapeutics for liver cancer.

Readership: Post graduate and PhD students in the field of Ayurveda, Pharmaceutical Science, Naturopathy. Researchers and practitioners in the field of Oncology, Phytotherapy and Cancer Drug development.

550pp	Dec 2024	
978-981-129-331-3	US\$158	£145
978-981-129-332-0(ebook)	US\$253	£230

CHINESE CYMBIDIUM ORCHID

A Gentleman of Noble Virtue
by **Choy Sin Hew, Yik Suan Wong**

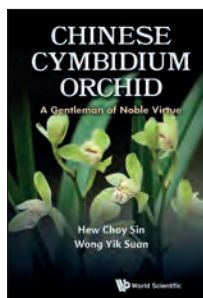
"I highly recommend this book to readers who wish to learn more about the Chinese Cymbidium orchid. The knowledge of Chinese Cymbidium orchid will enrich our appreciation for its beauty and the virtues it symbolizes into our real life."

Professor Wong Sek Man

**Department of Biological Sciences
National University of Singapore**

The book starts with the history of *Lan* and its association with Chinese culture and traditional customs, literature and the arts. This is followed by a description of the biology of *Lan* and cultivation practices of past and present. Finally, the prospects and future of *Lan* are presented and discussed.

180pp	Sep 2023	
978-981-126-336-1	US\$78	£70
978-981-126-337-8(ebook)	US\$125	£115



SELF AND SENSE OF AGENCY IN ARTIFICIAL SYSTEMS

by **Verena Hafner** (Humboldt University Berlin, Germany), **Guido Schillaci**

Recent advances in robotics and artificial intelligence enabled robots to not merely be programmed for a specific task, but adapt to their environment and own body autonomously. The inspiration for this open-ended development and learning comes from findings in developmental psychology on sensorimotor and social learning. Developing a sense of Self and a sense of agency is a crucial milestone towards autonomy and cognitive and social skills in both natural and artificial systems. This book will explain the development of the self and self-agency in humans, and discuss what could be transferred to artificial systems.

Readership: Researchers and graduate students in the fields of Computer Science & AI, Cognitive Science, Developmental Robotics, and Developmental Psychology.

200pp	Aug 2025	
978-981-128-330-7	US\$88	£80
978-981-128-331-4(ebook)	US\$141	£130

PSYCHOLOGY

WILD SYSTEMS THEORY

Non-Reductive Naturalism and Narratives of Meaning, Choice, and Self
by **J Scott Jordan** (Illinois State University, USA)

"Wild Systems Theory will provide both the intelligent reader and the expert (in the areas of ontology, philosophy of science, complex systems, cognitive science, communication studies, rhetoric, and psychology) with a scholarly and thoughtful account of a well-developed alternative to the reductive form of naturalism that pervades all of modern science. It will come through colorful tales, an engaging narrative, historical accounts, interesting observations, stimulating questions and, of course, authoritative scholarly rigor."

Ezequiel Morsella

Professor of Neuroscience, San Francisco State University, USA

Readership: Intended for experts in the fields of cognitive science, psychology, complex systems, ontology, philosophy of science, and communication studies.

200pp	Jun 2025	
978-981-128-469-4	US\$88	£80
978-981-128-470-0(ebook)	US\$141	£130

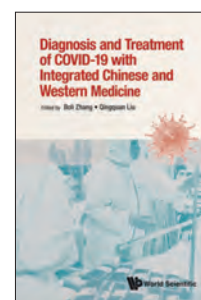


DIAGNOSIS AND TREATMENT OF COVID-19 WITH INTEGRATED CHINESE AND WESTERN MEDICINE

edited by **Boli Zhang** (Tianjin University of Traditional Chinese Medicine, China), **Qingquan Liu** (Beijing Hospital of Traditional Chinese Medicine, China)

This handbook mainly introduces the diagnosis and treatment methods of COVID-19 in traditional Chinese and Western medicine. In particular, principles for clinical treatments, therapeutic methods and prognostic rehabilitation interventions for the four types of clinical manifestations are elaborated. A chapter detailing guidance for healthy individuals on scientific prevention measures is also included, making this book suitable for not only frontline COVID-19 personnel and TCM enthusiasts, but also the general public.

424pp	Aug 2023	
978-981-122-805-6	US\$148	£135
978-981-122-806-3(ebook)	US\$237	£220



CORRECTIONAL REHABILITATION AND PSYCHOLOGICAL INTERVENTIONS IN SINGAPORE

Practitioners' Experiences in Singapore Prison Service
edited by **Xiang Long Cheng, Gabriel Ong** (Singapore Prison Service, Singapore)

"This book is not just about the 'head knowledge' that guides rehabilitation work, but also reflects the 'heart' elements of the people involved. Within these pages, we get a glimpse of the challenges in rehabilitation work and the feedback given by inmates. One gets a taste of the 'person of the therapist' and sees the 'genuine concern for the offender' incarnated into the practice of rehabilitation."

Associate Professor Timothy Leo
**School of Humanities and Behavioural Sciences
Singapore University of Social Sciences**

Readership: Government officials involved in national safety and security, prison administrators, and prisons staff in Southeast Asia, across Asia Pacific, and across Europe and North America and Academics.

280pp	May 2023	
978-981-126-735-2	US\$78	£70
978-981-126-736-9(ebook)	US\$125	£115



FLUX

The Complexity of Changing Minds
by **Franco Orsucci** (University College London, UK & University of Niccolò; Cusano, Italy)

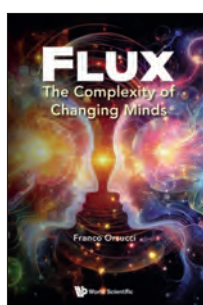
"Franco Orsucci has dedicated himself to the search for common principles of how all of human experience is related to the most basic physical, neurological, and relational processes. In this book, he brings this exploration deeper still, including quantum dynamics that are routinely observed at macro-scales, and the integration of semiotics — how meaning evolves through these common processes... is synchronization, in all of its possible forms, and some that may even seem impossible at first glance."

David Pincus

Professor, Chapman University, USA

Readership: Researchers, academics, instructors, graduate and undergraduate students in psychology, neuroscience.

200pp	May 2025	
978-981-128-736-7	US\$88	£80
978-981-128-737-4(ebook)	US\$141	£130



HEALTH AND WELLBEING IN ASIA PACIFIC

Contemporary Workplace Wellbeing Practices and Future Prospects
 edited by **Andrew Tay** (National University of Singapore, Singapore), **Katherine Koh** (National University of Singapore, Singapore)

"Through the use of case studies, Dr Andrew Tay et al brought real world and cultural relevance to concepts and theories, and covered strategies to enhance the ecosystem at the workplace through implementation science. I highly recommend this book."



Gan Wee Hoe

Head & Senior Consultant, Department of Occupational and Environmental Medicine, Singapore General Hospital

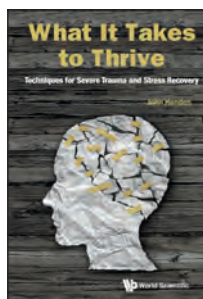
Readership: Industry practitioners looking to develop or enhance health and wellbeing initiatives in their workplace.

200pp	May 2025	
978-981-129-428-0	US\$78	£70
978-981-129-429-7(ebook)	US\$125	£115

WHAT IT TAKES TO THRIVE

Techniques for Severe Trauma and Stress Recovery
 by **John Henden** (John Henden Consultancy Ltd, UK)

"This book serves as a compendium of immediately applicable tools to use with people who have experienced trauma. A beginning practitioner will be able to act as a seasoned therapist using this book and the experienced trauma clinician will find it a highly practical reminder of what works and perhaps get a few new ideas."



Stephen M Langer, PhD

Director, Northwest Brief Therapy Training Center, Olympia, WA USA

faculty, International Trauma Treatment Program, USA

Readership: Psychotherapists, counsellors, welfare and social workers, volunteers in social and welfare work, and survivors of trauma and abuse.

208pp	Dec 2017	
978-981-3230-21-7(pbk)	US\$28	£25
978-981-3229-32-7	US\$68	£60
978-981-3229-33-4(ebook)	US\$109	£95

STEM CELLS RESEARCH

STEM CELL BIOLOGY

A Regenerative Tissue Perspective
 edited by **Rama Shanker Verma** (MNNIT Allahabad, India)

This book embarks on a comprehensive exploration of stem cells guided by various contributions from Indian academicians and researchers. This volume provides a thorough understanding of the current state of stem cell research and the wide range of applications, and pays tribute to the historical milestones that have paved the way. The book covers a wide range of aspects regarding stem cells, such as the fundamental biology of stem cells, various types of stem cells embryonic, adult sources as well as induced pluripotent stem cells [iPSCs], understanding the molecular aspects of stem cells to preclinical and clinical translational potential of stem cells.

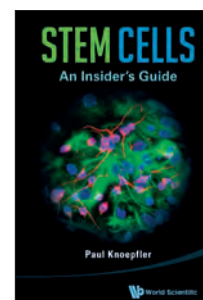
Readership: Graduate, PhD students and researchers interested in stem cells research. Hospital Library, Stem cell Banking Industry and Stem cell transplant doctors.

250pp	Nov 2024	
978-981-129-488-4	US\$148	£135
978-981-129-489-1(ebook)	US\$237	£220

STEM CELLS

An Insider's Guide
 by **Paul Knoepfler** (UC Davis)

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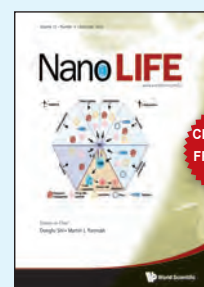
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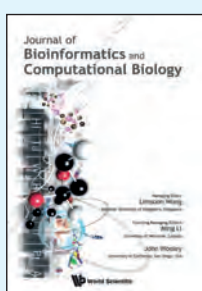
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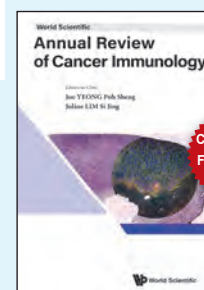


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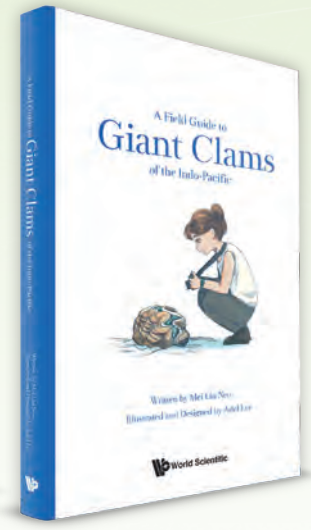
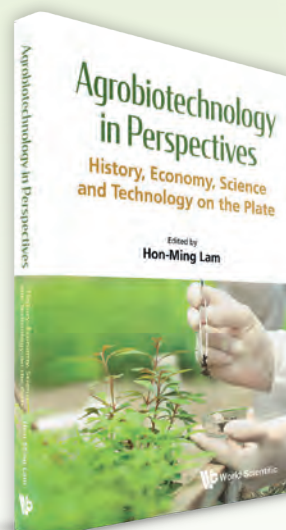
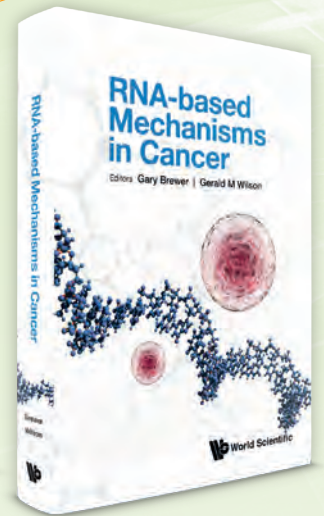
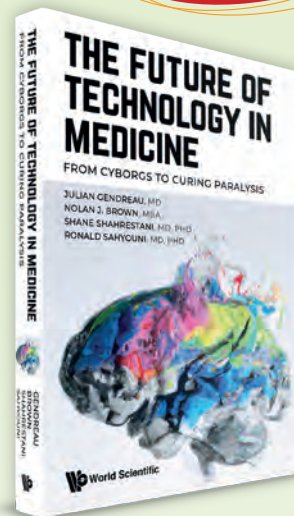
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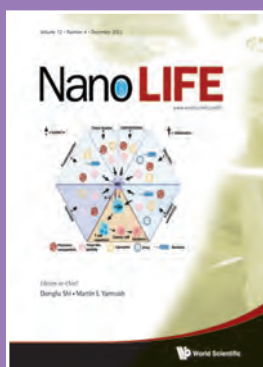


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