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This comprehensive Study Guide reinforces all the key concepts for the 2014 syllabus, ensuring students develop a

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clear understanding of all the crucial topics at SL and HL. Breaking concepts down into manageable sections and with diagrams and illustrations to cement understanding, exam preparation material is

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integrated to build student confidence and assessment potential. Directly linked to the Oxford Biology Course Book to extend and sharpen comprehension, this book supports maximum

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achievement in the course and assessment. About the series: Reinforce student understanding of all the crucial subject material. Fully comprehensive and matched to the most recent syllabuses,

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these resources provide focused review of all important concepts, tangibly strengthening assessment potential.

From a global perspective aquaculture is an activity

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related to food production with large potential for growth. Considering a continuously growing population, the efficiency and sustainability of this activity will be crucial to meet the needs of protein for

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human consumption in the near future. However, for continuous enhancement of the culture of both fish and shellfish there are still challenges to overcome, mostly related to the biology of the cultured species and their

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interaction with (increasingly changing) environmental factors. Examples of these challenges include early sexual maturation, feed meal replacement, immune response to infectious diseases and

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parasites, and temperature and salinity tolerance. Moreover, it is estimated that less than 10% of the total aquaculture production in the world is based on populations genetically improved by means

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of artificial selection. Thus, there is considerable room for implementing breeding schemes aimed at improving productive traits having significant economic impact. By far the most economically

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relevant trait is growth rate, which can be efficiently improved by conventional genetic selection (i.e. based on breeding values of selection candidates). However, there are other important traits that

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cannot be measured directly on selection candidates, such as resistance against infectious and parasitic agents and carcass quality traits (e.g. fillet yield and meat color). However, these traits can be more

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efficiently improved using molecular tools to assist breeding programs by means of marker-assisted selection, using a few markers explaining a high proportion of the trait variation, or genomic selection, using

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thousands of markers to estimate genomic breeding values. The development and implementation of new technologies applied to molecular biology and genomics, such as next-

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generation sequencing methods and high-throughput genotyping platforms, are allowing the rapid increase of availability of genomic resources in aquaculture species. These resources will

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provide powerful tools to the research community and will aid in the determination of the genetic factors involved in several biological aspects of aquaculture species. In this regard, it is important to

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establish discussion in terms of which strategies will be more efficient to solve the primary challenges that are affecting aquaculture systems around the world. The main objective of this Research Topic is to

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provide a forum to
communicate recent research
and implementation strategies
in the use of genomics in
aquaculture species with
emphasis on (1) a better
understanding of fish and

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shellfish biological processes having considerable impact on aquaculture systems; and (2) the efficient incorporation of molecular information into breeding programs to accelerate genetic progress of

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economically relevant traits.
The Franciscana Dolphin: On
the Edge of Survival provides
the most updated and
comprehensive knowledge on
the most endangered marine
mammal in the Western South

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Atlantic Ocean. It synthesizes all available information on this dolphin species, also referred to as La Plata dolphin, ranging from taxonomy, evolution, diet, parasites and diseases, reproduction and growth, to

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genetic diversity and stock definition, distribution, abundance, behavior, as well as the threats and causes behind the dwindling population numbers. Written by international experts, this book

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explores aspects of the species' natural history and urgent problems of accidental mortality in fishing nets, contamination and habitat loss. The book provides alternatives to rehabilitate this species and

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includes proposals for marine protected areas, public policies and international agreements aimed at joint conservation efforts. It is an important resource for researchers and practitioners in marine

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conservation, marine biology and zoology, particularly those who seek to gain the most reputable information on vulnerable marine mammal species for conservation efforts. Offers the most up-to-date

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research of the species' natural history, biology and ecology
Discusses current threats and solutions for species conservation that can be applied to other marine mammal species Provides

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updates on national and
international agreements and
policies for conservation efforts
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to Understanding the Cause

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and Treatment of Heart, Lung,
Blood, and Sleep
DisordersFrontiers E-books
Understanding by Design
Handbook of Research on
Technoself: Identity in a
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Prenatal and Postnatal Care
Genomics in Aquaculture to
Better Understand Species
Biology and Accelerate Genetic
Progress
Integrating nutrition and
physical activity

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Identity in a Technological
Society

Neuronal Mechanics and
Transport

*"This book provides
insights to better enhance
the understanding of*

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*technology's widespread
intertwinement with human
identity within an
advancing technological
society"--Provided by
publisher.*

The second edition of the

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comprehensive and award-winning text on prenatal and postnatal care The updated edition of Prenatal and Postnatal Care offers a comprehensive text for the

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*care of the woman during
the childbearing year. The
expert author team
presents information
needed to master
foundational knowledge in
anatomy, physiology,*

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psychology, culture, and structure of preconception, prenatal and postnatal care, and the management of common health problems in the childbearing year. This

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*edition has been revised
throughout and contains 6
new chapters on the
following topics: prenatal
ultrasound, triage of the
pregnant woman, assisting
women to development*

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*confidence for physiologic
birth, pregnancy after
infertility, oral health,
and issues around
diversity and inclusion in
prenatal and postnatal
care. Additional*

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highlights include new and updated content on pregnant women in the workplace, prenatal genetic testing, trauma-informed care, and transgender pregnancy

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care. The second edition also includes commonly used complementary therapies and offers more detailed information on shared decision-making and planning for birth.

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*Prenatal and Postnatal
Care: Provides expanded
faculty resources with
case studies and test
questions for each chapter
Offers a comprehensive
text that covers essential*

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*aspects of prenatal and
postnatal care of the
childbearing woman Builds
on the edition that won
the Book of the Year award
from the American College
of Nurse Midwives (ACNM)*

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*in 2015. This revised,
authoritative text is an
ideal resource for
midwifery, nurse
practitioner and physician
assistant students, and
healthcare providers*

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working with pregnant and postpartum women.

The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, 6th Edition provides the most current and authoritative

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*guidance on selecting,
performing, and evaluating
the results of new and
established laboratory
tests. This classic
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reference offers*

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*encyclopedic coverage
detailing everything you
need to know, including:
analytical criteria for
the medical usefulness of
laboratory tests,
variables that affect*

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*tests and results,
laboratory medicine,
applications of
statistical methods, and
most importantly clinical
utility and interpretation
of laboratory tests. It is*

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*THE definitive reference
in clinical chemistry and
molecular diagnostics, now
fully searchable and with
quarterly content updates,
podcasts, clinical cases,
animations, and extended*

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*content online through
Expert Consult. Analytical
criteria focus on the
medical usefulness of
laboratory procedures.
Reference ranges show new
approaches for*

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*establishing these ranges
– and provide the latest
information on this topic.
Lab management and costs
gives students and
chemists the practical
information they need to*

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assess costs, allowing them to do their job more efficiently and effectively. Statistical methods coverage provides you with information critical to the practice

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*of clinical chemistry.
Internationally recognized
chapter authors are
considered among the best
in their field. Two-color
design highlights
important features,*

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*illustrations, and content
to help you find
information easier and
faster. NEW!*

*Internationally recognized
chapter authors are
considered among the best*

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section with 12 chapters
that focus on emerging
issues and techniques in
the rapidly evolving and***

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molecular diagnostics and
genetics ensures this text
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of the most value. NEW!
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Reference Intervals for*

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user – anywhere in the world. NEW! 22 new chapters that focus on applications of mass spectrometry, hematology, transfusion medicine, microbiology, biobanking,

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biomarker utility in the pharmaceutical industry and more! NEW! Expert senior editors, Nader Rifai, Carl Wittwer and Rita Horvath, bring fresh perspectives and help

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*ensure the most current
information is presented.
UPDATED! Thoroughly
revised and peer-reviewed
chapters provide you with
the most current
information possible.*

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Nutraceuticals are a challenge for the future of prevention and therapy in healthcare. The possibility to prevent and/or support pharmacological therapy,

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which is nowadays mainly based on pharmaceuticals, can be a powerful tool to face pathological, chronic, long-term diseases in subjects who do not qualify for a

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*pharmacological therapy.
Nutraceuticals are
obtained from vegetal or
animal origin foods, and
prospective research on
these products will
clarify their role, safety*

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*and efficacy by
substantiating their role
with clinical data. An
effort to clarify their
mechanism of action will
open a door to the next
generation of therapeutic*

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agents that do not propose themselves as an alternative to drugs, but, instead, can be helpful to complement a pharmacological therapy, and to prevent the onset

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of chronical diseases. The market as well as the interest of people in naturally-derived remedies and less synthetic pharmaceuticals is growing, and the attention

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of the collective public imagination is nowadays more strongly focused on these food-derived products. This Special Issue is dedicated to the role of and perspectives

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on nutraceuticals in human health, examined from different angles ranging from analytical aspects to clinical trials, and from efficacy studies to beneficial effects on

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health conditions.

*International Encyclopedia
of Unified Science*

Perinatal Stem Cells

*Introducing the IB Diploma
Programme*

A Manual for Writers of

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Dissertations

*IB World Schools Yearbook
2012*

*Standard and Higher Level
Nutraceuticals in Human
Health*

This report considers the biological

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and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed

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in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on

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the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how

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smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

A history of the common people and the Industrial Revolution: “A

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true masterpiece” and one of the Modern Library’s 100 Best Nonfiction Books of the twentieth century (Tribune). During the formative years of the Industrial Revolution, English workers and artisans claimed a place in society

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that would shape the following centuries. But the capitalist elite did not form the working class—the workers shaped their own creations, developing a shared identity in the process. Despite their lack of power and the indignity

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forced upon them by the upper classes, the working class emerged as England's greatest cultural and political force. Crucial to contemporary trends in all aspects of society, at the turn of the nineteenth century, these workers

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united into the class that we recognize all across the Western world today. E. P. Thompson's magnum opus, *The Making of the English Working Class* defined early twentieth-century English social and economic history,

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leading many to consider him
Britain's greatest postwar historian.
Its publication in 1963 was highly
controversial in academia, but the
work has become a seminal text on
the history of the working class. It
remains incredibly relevant to the

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social and economic issues of current times, with the Guardian saying upon the book's fiftieth anniversary that it "continues to delight and inspire new readers." In September, 1976, the International Federation for Cell

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Biology held its first congress in Boston. On this occasion Berlin was chosen as the site for the next congress. This meant an acknowledgement and at the same time a heavy burden for the still young European Cell Biology

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Organization, which represents a junction of European societies and groups for cell biology. In practical terms, this meant that the members of the young and, compared to the American Society for Cell Biology, small German Society for Cell

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Biology had to do a good deal of the organizing of the Cell Biology Congress. This is an opportunity for me, as Chairman of the Organizing Committee, and also on behalf of the German Society for Cell Biology, to express my

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gratitude to all those who have actively participated in the preparations for this Cell Biology Congress. The success of the Congress in Berlin was to a significant extent due to their work. In particular, I would like to

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especially thank the Secretary General of ECBO Werner Franke, Heidelberg, as well as the Chairman of the Local Organizing Committee, Peter Giesbrecht, Berlin, for the excellent job they did. The Congress in Berlin proved to

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be significantly larger than that in Boston in 1976. The number of abstracts increased from 1200 to more than 1800. They have been published in the European Journal of Cell Biology. In a similar way the number of symposia and

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workshops expanded.

This book presents the latest advances in and current research perspectives on the field of urban/industrial solid waste recycling for bio-energy and bio-fuel recovery. It chiefly focuses on five

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main thematic areas, namely
bioreactor landfills coupled with
energy and nutrient recovery;
microbial insights into anaerobic
digestion; greenhouse emission
assessment; pyrolysis techniques
for special waste treatment; and

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industrial waste stabilization options. In addition, it compiles the results of case studies and solid waste management perspectives from different countries.

Study & Revision Guide for the IB
Diploma

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The Franciscana Dolphin
Developing Solid Oral Dosage
Forms

Recycling of Solid Waste for
Biofuels and Bio-chemicals

Strategic Instincts

Volume 2

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Quantities, Units and Symbols in
Physical Chemistry

1. INTRODUCTION In the Spring of 1975 we held an international workshop on the Foundations and Application of Decision Theory at the University of Western Ontario. To

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help structure the workshop into ordered and manageable sessions we distributed the following statement of our goals to all invited participants. They in turn responded with useful revisions and suggested their own areas of interest. Since this procedure

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provided the eventual format of the sessions, we include it here as the most appropriate introduction to these collected papers result ing from the workshop. The reader can readily gauge the approximation to our mutual goals. 2. STATEMENT OF

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OBJECTIVES AND RATIONALE

(Attached to this statement is a bibliography; names of persons cited in the statement and writing in this century will be found referenced in the bibliography - certain 'classics' aSide.)

2. 1. Preamble We understand

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in the following the Theory of Decisions in a broader sense than is presently customary, construing it to embrace a general theory of decision-making, including social, political and economic theory and applications. Thus, we subsume the Theory of

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Games under the head of Decision Theory, regarding it as a particularly clearly formulated version of part of the general theory of decision-making. Developing Solid Oral Dosage Forms: Pharmaceutical Theory and Practice, Second Edition illustrates how to

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develop high-quality, safe, and effective pharmaceutical products by discussing the latest techniques, tools, and scientific advances in preformulation investigation, formulation, process design, characterization, scale-up, and

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production operations. This book covers the essential principles of physical pharmacy, biopharmaceutics, and industrial pharmacy, and their application to the research and development process of oral dosage forms. Chapters have been added,

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combined, deleted, and completely revised as necessary to produce a comprehensive, well-organized, valuable reference for industry professionals and academics engaged in all aspects of the development process. New and important topics

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include spray drying, amorphous solid dispersion using hot-melt extrusion, modeling and simulation, bioequivalence of complex modified-released dosage forms, biowaivers, and much more. Written and edited by an international team of leading

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experts with experience and knowledge across industry, academia, and regulatory settings Includes new chapters covering the pharmaceutical applications of surface phenomenon, predictive biopharmaceutics and pharmacokinetics, the development of

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formulations for drug discovery support, and much more Presents new case studies throughout, and a section completely devoted to regulatory aspects, including global product regulation and international perspectives

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*from the IB, focused exam practice,
TOK links and real-life applications
drive achievement.*

*Presents a multifaceted model of
understanding, which is based on the
premise that people can demonstrate
understanding in a variety of ways.*

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As space medicine evolved from the late 1950s onward, the need arose for a ready reference for students and practitioners on the basic

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concepts of this new specialty. Through three editions edited by leaders in the development of space medicine, this classic text has met the need. This fourth edition of Space

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Physiology and Medicine provides succinct, evidence-based summaries of the current knowledge base in space medicine and serves as a source of information on the space environment,

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responses, and practices. Additionally, there is extensive online material available for each chapter, featuring overviews and self-study questions.

The first IUPAC Manual of

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*Symbols and Terminology
for Physicochemical
Quantities and Units (the
Green Book) of which this is
the direct successor, was
published in 1969, with the
object of 'securing clarity*

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and precision, and wider agreement in the use of symbols, by chemists in different countries, among physicists, chemists and engineers, and by editors of scientific journals'.

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Subsequent revisions have taken account of many developments in the field, culminating in the major extension and revision represented by the 1988 edition under the simplified

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title Quantities, Units and Symbols in Physical Chemistry. This 2007, Third Edition, is a further revision of the material which reflects the experience of the contributors with the

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previous editions. The book has been systematically brought up to date and new sections have been added. It strives to improve the exchange of scientific information among the

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readers in different disciplines and across different nations. In a rapidly expanding volume of scientific literature where each discipline has a tendency to retreat into its

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own jargon this book attempts to provide a readable compilation of widely used terms and symbols from many sources together with brief understandable definitions.

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This is the definitive guide for scientists and organizations working across a multitude of disciplines requiring internationally approved nomenclature.

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An ideal reference guide to introducing the IB Diploma in your school.

Revised edition of: Biology of aging: observations and principles. 2006.

Biology of Longevity and

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Aging

*The Biology and Behavioral
Basis for Smoking-
attributable Disease : a
Report of the Surgeon
General*

Genetics Made Easy

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Social Applications
Materials for Biomedical
Engineering: Bioactive
Materials for Antimicrobial,
Anticancer, and Gene*

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Therapy *IB Biology*

Bionanomaterials are identified as a perfect replacement, in the quest for the search of an alternative to toxic conventional nanomaterials for biomedical

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applications. Bionanomaterials are the nanomaterials, that are fabricated via biomolecules or encapsulate or immobilize a conventional nanomaterial with a biomolecule. The biomolecules extracted from the microbes,

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plants, agricultural wastes, insects, marine organisms and certain animals are used for the formation of bionanomaterials. These bionanomaterials exhibited low or negligible toxicity towards humans, other

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organisms and the environment with enhanced biocompatibility, bioavailability and bioreactivity. Thus, the aim of this book is to provide an overview of various bionanomaterials, their synthesis, characterization and

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their application-oriented properties. The book is divided into two parts – Part 1 discusses about the bionanomaterials of exclusive natural origin, self-assembled bionanomaterials and their environmental application

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and Part 2 focuses on applications of distinct bionanomaterials in biomedical sciences. The 'Chapter 1 – Bionanomaterials: Definitions, sources, types, properties, market, toxicity and regulations'

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aims to provide an extensive overview of bionanomaterials, their definitions, sources, types and their properties. In addition, the toxicity of bionanomaterials and their regulations implied in recent times were also

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discussed. 'Chapter 2 – Nature inspired bionanomaterials' highlights different types of nature-inspired biosynthesized nanomaterials and their green synthesis methods, as well as some of their emerging

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applications, especially in the fields of nanomedicine, cosmetics, drug delivery, molecular imaging, and catalytic precursors. Further, the chapter also covers different types of bionanomaterials (e.g., viruses,

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protein cages, and phages) and highlights their unique properties and potential applications.

‘Chapter 3 – Culinary spices mediated biogenesis of nanoparticles for cancer and diabetes treatment’ deals with

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bionanomaterials synthesized by using extracts of culinary spices and its vital role in the treatment of distinct types of cancer and diabetes. In 'Chapter 4 – Environment friendly superhydrophobic bioactive

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nanocoatings', the authors have discussed the basics of exceptional water repellence behaviour and recent developments in the area of bioactive-SHC for various applications. In addition, the

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current and projected requirements for bioactive-SHC were also addressed. The authors of 'Chapter 5 – Self-assembly of nanobionics: from theory to application' reviewed, discussed, addressed and

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highlighted the recent advancements in bionics as an interdisciplinary field to understand the bionic materials and particles, that are mainly fabricated via self-assembly approach.

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The Nordic countries have collaborated in setting guidelines for dietary composition and recommended intakes of nutrients for several decades through the joint publication of the Nordic Nutrition

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Recommendations (NNR). This 5th edition, the NNR 2012, gives Dietary Reference Values (DRVs) for nutrients, and compared with earlier editions more emphasis has been put on evaluating the scientific evidence

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for the role of food and food patterns contributing to the prevention of the major diet-related chronic diseases.

Recommendations on physical activity are included and interaction with physical activity

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has been taken into account for the individual nutrient recommendations wherever appropriate. A chapter on sustainable food consumption has been added. A Nordic perspective has been accounted

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for in setting the reference values. The NNR 2012 has used an evidence-based and transparent approach in assessing associations between nutrients and foods and certain health outcomes. Systematic

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reviews form the basis for the recommendations of several nutrients and topics, while a less stringent update has been done for others. The systematic reviews and individual chapters have been peer reviewed and

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the systematic reviews are published in the Food & Nutrition Research journal. The draft chapters were subject to an open public consultation.

Recommendations have been changed only when sufficient

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scientific evidence has evolved since the 4th edition. The primary aim of the NNR 2012 is to present the scientific background of the recommendations and their application. A secondary aim is

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for the NNR 2012 to function as
a basis for the national
recommendations that are
adopted by the individual

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SALE -- Significantly reduced list price Summarizes and updates the current National Cooperative Soil Survey conventions for describing soils. Intended to be both current and usable by the entire soil science community.

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The text explores the types of soil techniques and includes a Field Equipment checklist with samples of common soil equipment as part of the field guide. Other related products: Keys to Soil Taxonomy (2014)

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can be found here: <https://bookstore.gpo.gov/products/sku/001-000-04761-2> Keys to Soil

Taxonomy, 2010 can be found here: <https://bookstore.gpo.gov/products/sku/001-000-04745-1>

Drainage Manual can be found

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here: <https://bookstore.gpo.gov/products/sku/024-003-00177-5>
Converging Waters: Integrating Collaborative Modeling With Participatory Processes to Make Water Resources Decisions can be found here: <https://bookstore.gpo.gov/products/sku/024-003-00177-5>

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Investigation, Development, and
Management of Ground-Water
Resources can be found here:
<https://bookstore.gpo.gov/products/sku/024-003-00179-1>"

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Perinatal Stem Cells provides researchers and clinicians with a comprehensive description of the current clinical and pre-clinical applications of stem cells derived from perinatal sources, such as amniotic fluid, placenta and

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placental membranes, the umbilical cord and Wharton's jelly. It's compiled by leading experts in the field, offering readers detailed insights into sources of perinatal stem cells and their potential for disease

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treatment. Therapeutic applications of perinatal stem cells include the treatment of in utero and pregnancy related diseases, cardiac disease, liver disease, pulmonary disease, inflammatory diseases, for

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hematopoietic regeneration, and for neural protection after stroke or traumatic brain injury. In addition, the rapid advance in clinical translation and commercialization of perinatal stem cell therapies is highlighted

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in a section on Clinical and Industry Perspective which provides insight into the new opportunities and challenges involved in this novel and exciting industry. Explores current clinical and pre-clinical

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application of stem cells derived from perinatal sources Offers detailed insight into sources of perinatal stem cells and their potential for disease treatment Discusses progress in the manufacturing, banking and

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clinical translation of perinatal stem cells Edited by a world-renowned team to present a complete story of the development and promise of perinatal stem cells
Systems Biology Approaches to

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Understanding the Cause and
Treatment of Heart, Lung, Blood,
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Recommendations 2012

Development of powerful new high-
throughput technologies for probing

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the transcriptome, proteome and metabolome is driving the rapid acquisition of information on the function of molecular systems. The importance of these achievements cannot be understated – they have transformed the nature of both biology and medicine. Despite this dramatic

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progress, one of the greatest challenges that continues to confront modern biology is to understand how behavior at the level of genome, proteome and metabolome determines physiological function at the level of cell, tissue and organ in both health and disease. Because of the inherent

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complexity of biological systems, the development, analysis, and validation of integrative computational models based directly on experimental data is necessary to achieve this understanding. This approach, known as systems biology, integrates computational and experimental

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approaches through iterative development of mathematical models and experimental validation and testing. The combination of these approaches allows for a mechanistic understanding of the function of complex biological systems in health and their dysfunction in disease. The

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National Heart, Lung, and Blood Institute (NHLBI) has recognized the importance of the systems biology approach for understanding normal physiology and perturbations associated with heart, lung, blood, and sleep diseases and disorders. In 2006, NHLBI announced the Exploratory

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Program in Systems Biology, followed in 2010 by the NHLBI Systems Biology Collaborations. The goal of these programs is to support collaborative teams of investigators in using experimental and computational strategies to integrate the component parts of biological networks and

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pathways into computational models that are based firmly on and validated using experimental data. These validated models are then applied to gain insights into the mechanisms of altered system function in disease, to generate novel hypotheses regarding these mechanisms that can be tested

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experimentally, and to then use the results of experiments to refine the models. The purpose of this Research Topic is to present the range of innovative, new approaches being developed by investigators working in areas of systems biology that couple experimental and modeling studies to

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understand the cause and possible treatment of heart, lung, blood and sleep diseases and disorders. This Research Topic will be of great interest to the cardiovascular research community as well as to the general community of systems biologists.

"At the heart of much work in

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international relations is the attempt to understand why citizens and leaders act as they do-and over the last decade, a growing body of research has shown that the "rational choice theory" that has long guided this understanding is insufficient. People do not always behave rationally;

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instead, most of us have psychological biases that cause us to behave "irrationally." As political science has integrated this new behavioral research, the literature has tended to view such biases as source of errors or mistakes. Yet for other fields-most notably evolutionary biology-the same

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psychological biases are recognized as adaptive heuristics that evolved to improve our decision-making, not to undermine it. In this book, Johnson uses his cross-disciplinary training to push this evolutionary understanding of biases into the study of politics. Specifically, he asks: when and how

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can psychological biases cause or promote success in the realm of international relations? Johnson focuses on three of the most prominent psychological biases- overconfidence, the fundamental attribution error (the tendency to see others' actions as motivated by

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personality rather than the influence of external/situational factors) and in-group/out-group bias (favoring members of group one identifies with over those one does not). He outlines the scientific research on each bias, explores its adaptive advantages, and then gives detailed historical examples

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where the bias seems to have caused strategic advantages, focusing on the American Revolution (overconfidence), the UK and the appeasement of Hitler (fundamental attribution error) and the Pacific campaign in WW2 (group bias). He then circles back to acknowledge the "dark side" of biases when taken to

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the extreme, considering how confidence becomes hubris, the attribution error becomes paranoia and group bias becomes racism.

Ultimately, Johnson argues that this evolutionary perspective is the crucial next step in bringing psychological insights to bear on the foundational

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questions in the field"--

Ebook: The Science of Psychology: An
Appreciative View

Sirtuins comprise a family of
NAD⁺-dependent enzymes that have
been shown to impact longevity in a
number of eukaryotic organisms. Sir2
(Silent Information Regulator 2) was

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the first sirtuin protein discovered. The discovery that Sir2 requires NAD⁺ for its activity suggested a link between Sir2 activity and the phenomenon of caloric restriction in prolonging longevity. This link was strengthened by the observation that lifespan extension by caloric restriction

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requires Sir2 protein. Under conditions of caloric restriction, NAD⁺ levels are high, Sir2 is activated, and the rate of aging is decreased. These effects have been replicated in invertebrate organisms, where a close structural and functional homologue of Sir2 was found in *C. elegans* and *Drosophila*.

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The sirtuin-dependent effects on metabolism and ageing, observed in lower organisms, have ignited intensive investigation of their biological and therapeutic roles in mammals. There are seven known mammalian sirtuins, SIRT1-7, the most studied of which is SIRT1, a

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close structural and functional
homologue of yeast Sir2.

Enhancement of organismal longevity
and other health-promoting effects of
mammalian SIRT1 have frequently
been attributed to the regulation of
metabolism. A recognized molecular
link between metabolism and aging

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stimulated a firestorm of investigations, aiming to combat metabolic and age-dependent human diseases. It has become clear, however, that the sirtuin family of proteins regulates a diverse repertoire of cellular functions in mammals. Mounting evidence implicating SIRT1

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in important clinical indications, such as diabetes, cancer, cardiovascular dysfunction and neurodegenerative disease, suggest that modality as attractive therapeutic target.

Subsequently, drug discovery and development, targeting sirtuin activation, has been intensified in the

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recent years. Despite rapid progress and accumulation of new data, the biological roles of other mammalian sirtuins have been less studied and remain poorly understood. There are several important questions that remain to be addressed. What are the functions of sirtuins in different cell

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types and tissues? Are all sirtuins involved in the regulation of metabolism and aging? What is the functional relationship between different sirtuins? What are the mechanisms of regulation of sirtuin activities? What is the role of sirtuins in disease and therapy? This issue aims

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to address these and other critical questions, relevant to Research Topic on sirtuin biology and therapeutics. To that end the issue solicits expert opinions of sirtuin research on structural biology, biochemistry, cell biology, animal genetics, pharmacology, medicinal chemistry

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and drug discovery, and on areas of investigation studying human conditions, like diabetes, cancer, cardio-vascular, and neutodegeneration. Of particular interest are the new methods and assays to study sirtuins in various organisms and developing sirtuin-

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based therapeutics. Furthermore, we propose to encourage contributors to discuss new concepts and paradigms, and to express their perspectives on the future development of the sirtuin research field. Altogether, we believe this issue provides a unique opportunity for comprehensive and

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diverse coverage of the topic, and will be of broad interest for the journal ' s readership.

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Ebook: The Science of Psychology: An
Appreciative View

Materials for Biomedical
Engineering: Bioactive
Materials for

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Antimicrobial, Anticancer, and Gene Therapy offers an up-to-date perspective on recent research findings regarding the application and use of these materials for disease treatment and

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prevention. Various types of currently investigated bioactive materials, including therapeutic nanostructures and antimicrobial hydrogels are discussed, as are

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their properties, impact and future role in therapeutic applications. The book will be extremely useful for new researchers who want to explore more information on the use of

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bioactive materials or for more experienced researchers who are interested in new trends and specific applications. Provides knowledge on the range of bioactive

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materials available,
enabling the reader to
make optimal materials
selection decisions
Contains detailed
information on current and
proposed applications of

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the latest bioactive materials to empower readers to design innovative products and processes Presents a strong emphasis on chemistry and the physico-

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chemical characterization
of these materials and
their application in
antimicrobial, anticancer
and gene therapy
Understanding the
underlying mechanisms of

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how axons and dendrites develop is a fundamental problem in neuroscience and a main goal of research on nervous system development and regeneration. Previous

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studies have provided a tremendous amount of information on signaling and cytoskeletal proteins regulating axonal and dendritic growth and guidance. However,

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relatively little is known about the relative contribution and role of cytoskeletal dynamics, transport of organelles and cytoskeletal components, and force

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generation to axonal elongation. Advancing the knowledge of these biomechanical processes is critical to better understand the development of the nervous system, the

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pathological progression
of neurodegenerative
diseases, acute traumatic
injury, and for designing
novel approaches to
promote neuronal
regeneration following

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disease, stroke, or trauma. Mechanical properties and forces shape the development of the nervous system from the cellular up to the organ level. Recent

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advances in quantitative
live cell imaging,
biophysical, and
nanotechnological methods
such as traction force
microscopy, optical
tweezers, and atomic force

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microscopy have enabled researchers to gain better insights into how cytoskeletal dynamics and motor-driven transport, membrane-dynamics, adhesion, and substrate

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rigidity influence axonal elongation. Given the complexity and mechanical nature of this problem, mathematical modeling contributes significantly to our understanding of

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neuronal mechanics.
Nonetheless, there has
been limited direct
interaction and
discussions between
experimentalists and
theoreticians in this

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research area. The purpose of this Frontiers Research Topic is to highlight exciting, and important work that is currently developing in the fields of neuronal cell biology,

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neuronal mechanics,
intracellular transport,
and mathematical modeling
in the form of primary
research articles,
reviews, perspectives, and
commentaries.

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This book outlines the status quo of worldwide wildlife tourism and its impacts on planning, management, knowledge, awareness, behaviour and attitudes related to

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wildlife encounters. It sets out to fill the considerable gaps in our knowledge on wildlife tourism, applied ecology, and environmental education, providing

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comprehensive information
on and an
interdisciplinary approach
to effective management in
wildlife tourism.

Examining the intricacies,
challenges, and lessons

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learned in a meaningful
and rewarding tourism
niche, this
interdisciplinary book
comprehensively examines
the major potentials and
controversies in the

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wildlife tourism industry.
Pursuing an insightful,
provocative and hands-on
approach, it primarily
addresses two questions:
'Can we reconcile the
needs of the wildlife

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tourism industry,
biodiversity conservation,
ecological learning and
animal ethics issues?' and
'What is the Future of the
Wildlife Tourism
Industry?'. Though

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primarily intended as a research text, it also offers a valuable resource for a broad readership, which includes university and training students, researchers, scholars,

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tourism practitioners and professionals, planners and managers, as well as the staff of government agencies.

This concise guide provides all the content

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that English may not be
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The Adaptive Advantages of
Cognitive Biases in
International Politics

***The book discusses
invasive-species problems
in agriculture, forests and
aquatic ecosystems,***

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highlighting the invasive mechanisms and management of the selected invasive species. Biological invasion has become a serious global ecological and economic

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problem that deserves particular attention from both government officials and scientists. This volume focuses on three key scientific areas: 1) population establishment

and spreading mechanisms of the selected invasive species;
2) ecology adaptation, population growth, expansion and evolution of invasive species; and 3)

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impact of bio-invasion on the ecosystem structure and function at community and ecosystem levels. The presented research will result in techniques for

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***better management of
invasive species.***

***Papers Presented at the
Second International
Congress on Cell Biology
Berlin (West), August 31
- September 5, 1980***

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***On the Edge of Survival
Research and Therapy
Microbiology of wetlands
Field Book for Describing
and Sampling Soils***