

Read Online Comparative
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*Comparative Animal
Biochemistry 1st
Edition*

Nutrition is a very broad discipline,
encompassing biochemistry, physiology,

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endocrinology, immunology, microbiology and pathology. Presenting the major principles of nutrition of both domestic and wild animals, this book takes a comparative approach, recognising that there are considerable differences in nutrient digestion, metabolism and requirements among

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various mammalian and avian species. Explaining species differences in food selection, food-seeking and digestive strategies and their significance to nutritional needs, chapters cover a broad range of topics including digestive physiology, metabolic disorders and specific nutrients such as

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carbohydrates proteins and lipids, with particular attention being paid to nutritional and metabolic idiosyncrasies. It is an essential text for students of animal and veterinary sciences.

Comparative Veterinary Anatomy: A Clinical Approach describes the

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comprehensive, clinical application of anatomy for veterinarians, veterinary students, allied health professionals and undergraduate students majoring in biology and zoology. The book covers the applied anatomy of dogs, cats, horses, cows and other farm animals, with a short section on avian/exotics,

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and with specific clinical anatomical topics. The work improves the understanding of basic veterinary anatomy by making it relevant in the context of common clinical problems. This book will serve as a single-source reference on the application of important anatomical structures in a

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clinical setting. Students, practitioners and specialists will find this information easy-to-use and well-illustrated, thus presenting an accurate representation of essential anatomical structures that relates to real-life clinical situations in veterinary medicine. Presents multiple species, garnering a broad audience of

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interest for veterinarians, specialists,
professional students and
undergraduate students majoring in the
biological sciences Contains
anatomically accurate color figures at
the beginning of each different species
section Focuses on clinically-oriented
anatomy Correlates gross anatomy,

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radiology, ultrasound, CT, MRI and nuclear medicine in clinical case presentations

Handbook of Hormones: Comparative Endocrinology for Basic and Clinical Research collates fundamental information about the structure and function of hormones from basic

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biology to clinical use. The handbook offers a rapid way to obtain specific facts about the chemical and molecular characteristics of hormones, their receptors and signalling pathways, and the biological activities they regulate. The evolution of hormones and gene families is also covered both in the text

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and in online ancillaries. Users will find simple and visual ways to learn key molecular information. Chapters and online ancillary resources integrate additional sections, providing a comparative molecular, functional, and evolutionary consideration. Provides the only single resource available with

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concise, yet informative descriptions of hormones in vertebrates, invertebrates, and plants Presents hormones in groups according to their origin, so that readers can easily understand their inter-relation Includes comparative information on the structures and functions of hormones enabling readers

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to understand both general and specific actions in and across species Ancillary website hosts additional information, including sequence data, comparative data, figures, and tables

Comparative Animal Nutri...

Insights into Clinical Medicine from
Animal Adaptations

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Soil Microbiology, Ecology and
Biochemistry

The Zebrafish in Biomedical Research

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Sperm Biology represents
the first analysis of the
evolutionary significance

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of sperm phenotypes and derived sperm traits and the possible selection pressures responsible for sperm-egg coevolution. An understanding of sperm evolution is fast

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developing and promises to shed light on many topics from basic reproductive biology to the evolutionary process itself as well as the sperm proteome, the sperm

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genome and the quantitative genetics of sperm. The Editors have identified 15 topics of current interest and biological significance to cover all aspects of this

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bizarre, fascinating and important subject. It comprises the most comprehensive and up-to-date review of the evolution of sperm and pointers for future

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research, written by experts in both sperm biology and evolutionary biology. The combination of evolution and sperm is a potent mix, and this is the definitive account.

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The first review survey of
this emerging field

Written by experts from a
broad array of disciplines
from the physiological and
biomedical to the
ecological and

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evolutionary Sheds light
on the intricacies of
reproduction and the
coevolution of sperm, egg
and reproductive behavior
Encyclopedia of Animal
Behavior, Second Edition,

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the latest update since the 2010 release, builds upon the solid foundation established in the first edition. Updated sections include Host-parasite interactions, Vertebrate

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social behavior, and the introduction of 'overview essays' that boost the book's comprehensive detail. The structure for the work is modified to accommodate a better

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grouping of subjects. Some chapters have been reshuffled, with section headings combined or modified. Represents a one-stop resource for scientifically reliable

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information on animal
behavior Provides
comparative approaches,
including the perspective
of evolutionary
biologists, physiologists,
endocrinologists,

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neuroscientists and
psychologists Includes
multimedia features in the
online version that offer
accessible tools to
readers looking to deepen
their understanding

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Here is a uniquely modern approach to the study of physiological diversity that builds on the tradition established by C. Ladd Prosser's Comparative Animal

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Physiology. Responding to the need for a rigorously up-to-date, comprehensive survey of function and integrative systems in a variety of species, which is also easily accessible

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to the user, Dr. Prosser has delivered a thoroughly revised Fourth Edition in a convenient two-volume format. This carefully designed framework lets each volume zero-in on

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distinct aspects of comparative physiology normally studied as a whole unit. From the study of genetically replicating molecules to investigations of adaptive

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modulation, these two companion volumes offer an all-encompassing view of the field. With their contemporary approach, scholarly editing, flexible format, and

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detailed contents, Neural
and Integrative Animal
Physiology and
Environmental and
Metabolic Animal
Physiology will stand
together as the

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authoritative source in
the field.

An Evolutionary
Perspective

A Laboratory and Field
Guide of Common North
American Animals

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Comparative Animal
Physiology, Environmental
and Metabolic Animal
Physiology
Advances in Comparative
Physiology and
Biochemistry

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Clinical Biochemistry of
Domestic Animals

The ability to introduce
macromolecules into animal cells,
including DNA, RNA, proteins, and
other bioactive compounds has
facilitated a broad range of

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biological studies, from biochemistry and biophysics to molecular biology, cell biology, and whole animal studies. Gene transfer technology in particular will continue to play an essential role in studies aimed at improving our

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understanding of the relationships between the gene structure and function, and it has important practical applications in both biotechnology and biomedicine, as evidenced by the current intense interest in gene therapy. Although

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DNA and other macromolecules may be introduced into cells by a variety of methods, including chemical treatments and microinjection, electroporation has proven to be simpler to perform, more efficient, and effective with a

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wider variety of cell types than other techniques. The early and broad success of electric field-mediated DNA transfer soon prompted researchers to investigate electroporation for transferring other types of

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molecules into cells, including RNA, enzymes, antibodies, and analytic dyes. Animal Cell Electroporation and Electrofusion Protocols begins with three chapters that describe the theoretical and practical aspects of electroporation,

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including a review of the commercially available instrumentation. These introductory chapters will be of particular interest to those new to electric field technologies and to those developing protocols for as yet

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untested species or cell types. Nineteen chapters follow that present well-tested protocols for electroporation of proteins and DNA into insect, fish, and mammalian cells.

Comparative Animal

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Biochemistry Springer Science &
Business Media

Clinical Biochemistry of Domestic
Animals, Second Edition, Volume I,
is a major revision of the first
edition prompted by the marked
expansion of knowledge in the

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clinical biochemistry of animals. In keeping with this expansion of knowledge, this edition is comprised of two volumes.

Chapters on the pancreas, thyroid, and pituitary-adrenal systems have been separated and entirely

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rewritten. Completely new chapters on muscle metabolism, iron metabolism, blood clotting, and gastrointestinal function have been added. All the chapters of the first edition have been revised with pertinent new information, and

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many have been completely rewritten. This volume contains 10 chapters and opens with a discussion of carbohydrate metabolism and associated disorders. Separate chapters follow on lipid metabolism, plasma

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proteins, and porphyrins.

Subsequent chapters deal with liver, pancreatic, and thyroid functions; the role of the pituitary and adrenal glands in health and disease; the function of calcium, inorganic phosphorus, and

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magnesium metabolism in health
and disease; and iron metabolism.

Collection of foreign Veterinary
medical theses and dissertations
(no.3501-4000)

Guide to Research Techniques in
Neuroscience

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Hagfish Biology

Handbook of Hormones

Encyclopedia of Animal Behavior

Medical Biochemistry, Second

Edition covers the structure and

physical and chemical properties of

hydrocarbons, lipids, proteins and

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nucleotides in a straightforward and easy to comprehend language. The book develops these concepts into the more complex aspects of biochemistry using a systems approach, dedicating chapters to the integral study of biological

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phenomena, including particular aspects of metabolism in some organs and tissues, the biochemical bases of endocrinology, immunity, vitamins, hemostasis, autophagy and apoptosis. Additionally, the book has been updated with full-color

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figures, chapter summaries, and further medical examples to improve learning and illustrate the concepts described in the book. Sections cover bioenergetics and metabolic syndromes, antioxidants to treat disease, plasma membranes,

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ATPases and monocarboxylate transporters, the human microbiome, carbohydrate and lipid metabolism, autophagy, virology and epigenetics, non-coding, small and long RNAs, protein misfolding, signal transduction pathways,

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vitamin D, cellular immunity and apoptosis. Integrates basic biochemistry principles with molecular biology and molecular physiology Illustrates basic biochemical concepts through medical and physiological examples

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Utilizes a systems approach to understanding biological phenomena Fully updated for recent studies and expanded to include clinically relevant examples and succinct chapter summaries

Modern neuroscience research is

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inherently multidisciplinary, with a wide variety of cutting edge new techniques to explore multiple levels of investigation. This Third Edition of Guide to Research Techniques in Neuroscience provides a comprehensive overview of classical

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and cutting edge methods including their utility, limitations, and how data are presented in the literature. This book can be used as an introduction to neuroscience techniques for anyone new to the field or as a reference for any

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*neuroscientist while reading papers
or attending talks. • Nearly 200
updated full-color illustrations to
clearly convey the theory and
practice of neuroscience methods •
Expands on techniques from
previous editions and covers many*

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new techniques including in vivo calcium imaging, fiber photometry, RNA-Seq, brain spheroids, CRISPR-Cas9 genome editing, and more • Clear, straightforward explanations of each technique for anyone new to the field • A broad scope of

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methods, from noninvasive brain imaging in human subjects, to electrophysiology in animal models, to recombinant DNA technology in test tubes, to transfection of neurons in cell culture • Detailed recommendations on where to find

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*protocols and other resources for
specific techniques • “Walk-through
boxes that guide readers through
experiments step-by-step
The seventh edition of this book is a
comprehensive guide to
biochemistry for medical students.*

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Divided into six sections, the book examines in depth topics relating to chemical basics of life, metabolism, clinical and applied biochemistry, nutrition, molecular biology and hormones. New chapters have been added to this edition and each

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chapter includes clinical case studies to help students understand clinical relevance. A 274-page free booklet of revision exercises (9789350906378), providing essay questions, short notes, viva voce and multiple choice questions is included

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to help students in their exam preparation. Free online access to additional clinical cases, key concepts and an image bank is also provided. Key points Fully updated, new edition providing students with comprehensive guide to

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*biochemistry Includes a free booklet
of revision exercises and free online
access Highly illustrated with nearly
1500 figures, images, tables and
illustrations Previous edition
published in 2010*

Guide to Biochemistry

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*Comparative Anatomy and
Histology*

*Comparative Biology of the Normal
Lung*

*11th Conference of the European
Society for Comparative Physiology
and Biochemistry, and 1st Joint*

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*Meeting ESCPB - Association Des
Physiologistes, Reims, September
3-7, 1989*

*Comparative Nutrition Of Man and
Domestic Animals*

tribute greatly to understanding the
origins of The plan for this book goes

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back almost 20 years. Already, at that time, it was possible to recognize organisms. an extraordinary variation in metabolites and To provide the biochemist with a ready over processes superimposed upon the basic biochem view of the structural diversity of

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animals, the book includes a simplified version of animal systematic system of animals. Each species, each individual; for further information on the classification, in fact each type of cell of the multicellular organism possesses its own biochemical characteristics,

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structure and life of particular animal species, and this molecular variety, its biological significance, the reader should consult the relevant text, and its evolutionary development books. It is assumed that the zoologist reader has thrown up many interesting questions.

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The com a basic knowledge of biochemistry; important general biochemical facts are in any case given for parative approach that has been so productive at many of the subjects covered. the higher levels of complexity of morphology and

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physiology can also be used to great effect at I had already completed several chapters of the molecular level. this book by the beginning of the 1970s.

With over 70 species still populating the world's oceans after approximately

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500 million years, hagfishes are essential benthic organisms that play a vital role in understanding the evolutionary origins of vertebrate life and the maintenance of the oceanic ecosystem. Hagfish Biology is a long overdue book for communicating and

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furthering study on these unique animals. It provides an avenue of synergy among scientists interested in hagfish physiology, molecular and evolutionary biology, morphology, and protection. New high throughput sequencing technologies, advanced

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microscopy techniques, descriptions of hagfish embryology, and developments of techniques to understand ancient evolutionary relationships have led to a resurgence of interest in the hagfish as a key species in understanding the evolution of vertebrates. Inspired by

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these new research perspectives, this book compiles scientific information on hagfishes that is of interest to a range of fields such as ecology and evolution, comparative physiology, and conservation biology. A much-needed contribution, Hagfish Biology builds on

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previous knowledge while encouraging further expansion of scientific interest and learning about this fascinating yet understudied key evolutionary species. It introduces you to developing areas of research and provides beginning points for a larger conversation on hagfishes.

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The fourth edition of Soil Microbiology, Ecology and Biochemistry updates this widely used reference as the study and understanding of soil biota, their function, and the dynamics of soil organic matter has been revolutionized

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by molecular and instrumental techniques, and information technology. Knowledge of soil microbiology, ecology and biochemistry is central to our understanding of organisms and their processes and interactions with their

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environment. In a time of great global change and increased emphasis on biodiversity and food security, soil microbiology and ecology has become an increasingly important topic.

Revised by a group of world-renowned authors in many institutions and

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disciplines, this work relates the breakthroughs in knowledge in this important field to its history as well as future applications. The new edition provides readable, practical, impactful information for its many applied and fundamental disciplines. Professionals

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turn to this text as a reference for fundamental knowledge in their field or to inform management practices. New section on "Methods in Studying Soil Organic Matter Formation and Nutrient Dynamics" to balance the two successful chapters on microbial and

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physiological methodology Includes
expanded information on soil
interactions with organisms involved in
human and plant disease Improved
readability and integration for an ever-
widening audience in his field
Integrated concepts related to soil biota,

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diversity, and function allow readers in multiple disciplines to understand the complex soil biota and their function
Imaging Anatomy Brain and Spine, E-Book

Comparative Veterinary Anatomy
A Mouse, Rat, and Human Atlas

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Current Catalog

Medical Biochemistry

The second edition of Comparative Anatomy and Histology is aimed at the new rodent investigator as well as medical and veterinary pathologists who need to expand

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their knowledge base into comparative anatomy and histology. It guides the reader through normal mouse and rat anatomy and histology using direct comparison to the human. The side by side comparison of mouse, rat, and

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human tissues highlight the unique biology of the rodents, which has great impact on the validation of rodent models of human disease. Offers the only comprehensive source for comparing mouse, rat, and human anatomy and histology

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*through over 1500 full-color
images, in one reference work
Enables human and veterinary
pathologists to examine tissue
samples with greater accuracy and
confidence Teaches biomedical
researchers to examine the*

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histologic changes in their model rodents Experts from both human and veterinary fields take readers through each organ system in a side-by-side comparative approach to anatomy and histology - human Netter anatomy images along with

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Netter-style rodent images

*The Zebrafish in Biomedical
Research: Biology, Husbandry,
Diseases, and Research*

*Applications is a comprehensive
work that fulfills a critical need
for a thorough compilation of*

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information on this species. The text provides significant updates for working vivarium professionals maintaining zebrafish colonies, veterinarians responsible for their care and well-being, zoologists and ethologists studying the species, and

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investigators using the species to gain critical insights into human physiology and disease. As the zebrafish has become an important model organism for the study of vertebrate development and disease, organ function, behavior,

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toxicology, cancer, and drug discovery, this book presents an important resource for future research. Presents a complete view of the zebrafish, covering their biology, husbandry, diseases and research applications Includes the

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*work of world-renowned authors
Provides the first authoritative and
comprehensive treatment of
zebrafish in biomedical research as
part of the ACLAM series
Comparative Biology of the Normal
Lung, 2nd Edition, offers a*

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*rigorous and comprehensive
reference for all those involved in
pulmonary research. This fully
updated work is divided into
sections on anatomy and
morphology, physiology,
biochemistry, and immunological*

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response. It continues to provide a unique comparative perspective on the mammalian lung. This edition includes several new chapters and expanded content, including aging and development of the normal lung, mechanical properties of the

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lung, genetic polymorphisms, the comparative effect of stress of pulmonary immune function, oxygen signaling in the mammalian lung and much more. By addressing scientific advances and critical issues in lung research, this 2nd

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edition is a timely and valuable work on comparative data for the interpretation of studies of animal models as compared to the human lung. Edited and authored by experts in the field to provide an excellent and timely review of cross-

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species comparisons that will help you interpret and compare data from animal studies to human findings Incorporates lung anatomy and physiology, cell specific interactions and immunological responses to provide you with a

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*single and unique multidisciplinary
source on the comparative biology
of the normal lung Includes new
and expanded content on neonatal
and aged lungs, developmental
processes, cell signaling,
antioxidants, airway cells, safety*

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pharmacology and much more
Section IV on Physical and
Immunological Defenses has been
significantly updated with 9 new
chapters and an increased focus on
the pulmonary immunological
system

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*The Publishers' Trade List Annual
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Processes*

*Animal Cell Electroporation and
Electrofusion Protocols*

BPR annual cumulative

Textbook of Biochemistry for

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Medical Students

In the forensic context it is quite common for nonhuman bones to be confused with human remains and end up in the medical examiner or coroner system. It is also

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quite common for skeletal remains (both human and nonhuman) to be discovered in archaeological contexts. While the difference between human and nonhuman bones is often very striking, it can

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*also be quite subtle.
Fragmentation only
compounds the problem. The
ability to differentiate
between human and
nonhuman bones is
dependent on the training of*

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*the analyst and the available
reference and/or
comparative material.*

*Comparative Osteology is a
photographic atlas of
common North American
animal bones designed for*

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*use as a laboratory and field
guide by the forensic
scientist or archaeologist.
The intent of the guide is not
to be inclusive of all animals,
but rather to present some
of the most common species*

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which also have the highest likelihood of being potentially confused with human remains. An affordably priced, compact laboratory/field manual, comparing human and

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nonhuman bones Contains almost 600 high-quality black and white images and diagrams, including inch and centimeter scales with each photograph Written by the foremost forensic scientists

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*with decades of experience
in the laboratory and as
expert witnesses An
additional Companion Web
site hosts images from the
volume the reader can
magnify and zoom into to*

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*see specific landmarks and
features on bones <http://booksite.academicpress.com/9780123884374>*

*Advances in Comparative
Physiology and Biochemistry,
Volume 5, presents three*

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*papers that cover the
different physiological and
chemical aspects of biology,
from functional morphology
at one end to behavior at the
other end of the spectrum.
As always this serial*

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publication emphasizes comparison, be it within a group of related organisms or related substances or mechanisms throughout the animal kingdom. The first study on the feeding and

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digestion in the Bivalvia examines both the feeding mechanisms and digestive processes within this class of mollusks, solidly based on functional morphology and biochemistry. The second

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*study on isoenzymes,
multiple enzymes, and
phylogeny traces the
evolutionary relationships
between and within groups
of important enzyme
systems, taking evidence*

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from representatives of the whole animal kingdom. The final paper on the comparative physiology of reproduction in arthropods examines the reproductive mechanisms in a whole

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phylum. It considers patterns of sexuality, germ cell formation, physiology, mating behavior and the nervous and hormonal factors governing reproduction.

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The Evolution of the Genome provides a much needed overview of genomic study through clear, detailed, expert-authored discussions of the key areas in genome biology. This includes the

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*evolution of genome size,
genomic parasites, gene and
ancient genome
duplications, polypoidy,
comparative genomics, and
the implications of these
genome-level phenomena*

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for evolutionary theory. In addition to reviewing the current state of knowledge of these fields in an accessible way, the various chapters also provide historical and conceptual

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*background information,
highlight the ways in which
the critical questions are
actually being studied,
indicate some important
areas for future research,
and build bridges across*

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traditional professional and taxonomic boundaries. The Evolution of the Genome will serve as a critical resource for graduate students, postdoctoral fellows, and established scientists alike

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who are interested in the issue of genome evolution in the broadest sense. Provides detailed, clearly written chapters authored by leading researchers in their respective fields Presents a

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*much-needed overview of
the historical and theoretical
context of the various areas
of genomic study Creates
important links between
topics in order to promote
integration across*

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subdisciplines, including descriptions of how each subject is actually studied Provides information specifically designed to be accessible to established researchers, postdoctoral

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*fellows, and graduate
students alike*

*Scientific and Technical
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Comparative Endocrinology

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*for Basic and Clinical
Research*

*Principles of Food Analysis
for Filth, Decomposition, and
Foreign Matter*

*Comparative Animal
Physiology: Sensory,*

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*effector, and integrative
physiology*

Scaling Up of Microbial

*Electrochemical Systems: From
Reality to Scalability is the first book
of its kind to focus on scaling up of
microbial electrochemical systems*

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(MES) and the unique challenges faced when moving towards practical applications using this technology. This book emphasizes an understanding of the current limitations of MES technology and suggests a way forward towards onsite

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applications of MES for practical use. It includes the basics of MES as well as success stories and case studies of MES in the direction of practical applications. This book will give a new direction to energy researchers, scientists and policymakers working

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on field applications of microbial electrochemical systems—microbial fuel cells, microbial electrolysis cells, microbial electrosynthesis cells, and more. Promotes the advancement of microbial electrochemical systems, from lab scale to field applications

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Illustrates the challenges of scaling up using successive case studies

Provides the basics of MES technology to help deepen understanding of the subject

Addresses lifecycle analysis of MES technology to allow comparison with

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other conventional methods

This richly illustrated and superbly organized text/atlas is an excellent point-of-care resource for practitioners at all levels of experience and training. Written by global leaders in the field, Imaging

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Anatomy: Brain and Spine provides a thorough understanding of the detailed normal anatomy that underlies contemporary imaging. This must-have reference employs a templated, highly formatted design; concise, bulleted text; and state-of- the-

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art images throughout that identify the clinical entities in each anatomic area. Features more than 2,500 high-resolution images throughout, including 7T MR, fMRI, diffusion tensor MRI, and multidetector row CT images in many planes, combined

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with over 300 correlative full-color anatomic drawings that show human anatomy in the projections that radiologists use. Covers only the brain and spine, presenting multiplanar normal imaging anatomy in all pertinent modalities for an

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unsurpassed, comprehensive point-of-care clinical reference. Incorporates recent, stunning advances in imaging such as 7T and functional MR imaging, surface and segmented anatomy, single-photon emission computed tomography (SPECT)

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the world to create this fully revised and updated edition. This book is an indispensable reference and text on food biochemistry and the ever increasing developments in the biotechnology of food processing. Beginning with sections on the essential principles of food

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biochemistry, enzymology, and food processing, the book then takes the reader on commodity-by-commodity discussions of biochemistry of raw materials and product processing. Chapters in this second edition have been revised to include safety

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considerations and the chemical changes induced by processing in the biomolecules of the selected foodstuffs. This edition also includes a new section on health and functional foods, as well as ten new chapters including those on thermally and minimally processed

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Department of Food Science and
Agricultural Chemistry, McGill
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***Agriculture, University of Guelph,
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Consultant to the Food Industry,
West Sacramento, California, USA
This book describes a novel and
unique approach to the treatment of
human diseases based on the study
of natural animal models. A natural***

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animal model is defined as an animal group or species that possesses a set of biochemical/physiological characteristics which are natural and adaptive for that animal, but are quite abnormal for humans. For example, how is it that birds can

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tolerate blood glucose concentrations which in humans are associated with diabetes. The natural animal model is living proof that a biological answer to this question is available. By studying natural animal models, we can gain valuable insights into the treatment

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of various human clinical disorders. Covering a wide range of disorders, this book describes in detail how medical scientists can take advantage of all the “research” that nature has already performed over billions of years in biological problem solving through extensive

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Mellitus Chronic Renal

Failure Atherosclerotic Vascular

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Toxicity Hypoxia/Ischemia Epilogue

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current understanding of the pathogenesis of the disorder and how the natural animal model has solved that particular problem
Suggests potential research questions based upon what is known and not known about the natural animal model
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nature, functions, and participation in the energy transactions of the body. Organized into 11 chapters, the book initially discusses the principles of the basal metabolism and the activity increment and their role in evaluating maintenance requirement of human and animal for energy. The subsequent

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chapter focuses on the maintenance requirement of protein under stress and non-stress conditions. Other chapters discuss nutrient requirements for maintenance, such as water and minerals. The book also examines the nutrient requirements for muscle activities, growth, senescence,

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reproduction, and lactation. A discussion on the storage of nutritive material, such as water, protein, minerals, vitamins, and energy, is included. This volume is an invaluable source for organic chemists, biochemists, animal physiologists, zoologists, and nutritionists.

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