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Cumulated Index Medicus - 1995

Principles of Animal Locomotion - R. McNeill Alexander 2013-10-31
How can geckoes walk on the ceiling and basilisk lizards run over water? What are the aerodynamic effects that enable small insects to fly? What are the relative merits of squids' jet-propelled swimming and fishes' tail-powered

swimming? Why do horses change gait as they increase speed? What determines our own vertical leap? Recent technical advances have greatly increased researchers' ability to answer these questions with certainty and in detail. This text provides an up-to-date overview of how animals run, walk, jump, crawl, swim, soar, hover, and fly. Excluding only the tiny creatures that use cilia, it

covers all animals that power their movements with muscle--from roundworms to whales, clams to elephants, and gnats to albatrosses. The introduction sets out the general rules governing all modes of animal locomotion and considers the performance criteria--such as speed, endurance, and economy--that have shaped their selection. It introduces energetics and optimality as basic principles. The text then tackles each of the major modes by which animals move on land, in water, and through air. It explains the mechanisms involved and the physical and biological forces shaping those mechanisms, paying particular attention to energy costs. Focusing on general principles but extensively discussing a wide variety of individual cases, this is a superb synthesis of current knowledge about animal locomotion. It will be enormously useful to advanced undergraduates, graduate students, and a range of professional biologists, physicists, and engineers.

Polyfluorinated Chemicals and Transformation Products -

Thomas P. Knepper 2011-09-21

Due to their unparalleled effectiveness and efficiency, polyfluorinated chemicals (PFC) have become essential in numerous technical applications. However, many PFCs brought to market show limited biodegradability, and their environmental persistence combined with toxic and bioaccumulative potential have become a matter of concern in some instances. This volume highlights the synthesis of PFCs, focusing on substances with improved application and environmental properties, which are a challenge for synthetic chemists. Further, modern mass spectrometric techniques for the detection and identification of biotransformation products of PFCs are described. The sorption and leaching behavior of PFC in soil is also addressed in order to predict their fate in the environment. Several contributions discuss the monitoring of PFCs in

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European surface, ground and drinking waters, treatment options for PFC removal from drinking water, occurrence in food, and the human biomonitoring of PFCs.

Ecosystem Effects of Fishing in the Mediterranean - Sergi Tudela 2004

Most of the major impacts of fishing on the ecosystems recorded around the world occur in the Mediterranean. This variety of interactions is due to four main interrelated factors: the wide range of fishing gear and practices; very intensive fishing; a high diversity of exploited habitats, ranging from shallow water to the deep-sea and oceanic domain; and high biological diversity.

Index Medicus - 2003

British Chemical Abstracts - 1923

Assessment of Authentic Performance in School Mathematics - Richard A. Lesh 2013-04-03

This book is the result of a conference sponsored by the

Educational Testing Service and the University of Wisconsin's National Center for Research in Mathematical Sciences Education. The purpose of the conference was to facilitate the work of a group of scholars whose interests included the assessment of higher-order understandings and processes in foundation-level (pre-high school) mathematics. Discussions focused on such issues as the purposes of assessment, guidelines for producing and scoring "real-life" assessment activities, and the meanings of such terms as "deeper and higher-order understanding," "cognitive objectives," and "authentic mathematical activities." Assessment was viewed as a critical component of complex, dynamic, and continually adapting educational systems. During the time that the chapters in this book were being written, sweeping changes in mathematics education were being initiated in response to powerful recent advances in technology, cognitive

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psychology, and mathematics, as well as to numerous public demands for educational reform. These changes have already resulted in significant reappraisals of what it means to understand mathematics, of the nature of mathematics teaching and learning, and of the real-life situations in which mathematics is useful. The challenge was to pursue assessment-related initiatives that are systematically valid, in the sense that they work to complement and enhance other improvements in the educational system rather than act as an impediment to badly needed curriculum reforms. To address these issues, most chapters in this book focus on clarifying and articulating the goals of assessment and instruction, and they stress the content of assessment above its mode of delivery. Computer- or portfolio-based assessments are interpreted as means to ends, not as ends in themselves. Assessment is conceived as an ongoing documentation process, seamless with instruction,

whose quality hinges upon its ability to provide complete and appropriate information as needed to inform priorities in instructional decision making. This book tackles some of the most complicated issues related to assessment, and it offers fresh perspectives from leaders in the field--with the hope that the ultimate consumer in the instruction/assessment enterprise, the individual student, will reclaim his or her potential for self-directed mathematics learning.

Respiratory Physiology of Vertebrates - Göran E. Nilsson
2010-01-28

How do vertebrates get the oxygen they need, or even manage without it for shorter or longer periods of time? How do they sense oxygen, how do they take it up from water or air, and how do they transport it to their tissues? Respiratory system adaptations allow numerous vertebrates to thrive in extreme environments where oxygen availability is limited or where there is no oxygen at all. Written for

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students and researchers in comparative physiology, this authoritative summary of vertebrate respiratory physiology begins by exploring the fundamentals of oxygen sensing, uptake and transport in a textbook style.

Subsequently, the reader is shown important examples of extreme respiratory performance, like diving and high altitude survival in mammals and birds, air breathing in fish, and those few vertebrates that can survive without any oxygen at all for several months, showing how evolution has solved the problem of life without oxygen.

Impacts of Marine Litter -
Luisa Galgani 2019-08-15

The Diversity of Fishes - Gene Helfman 2009-04-03

The second edition of *The Diversity of Fishes* represents a major revision of the world's most widely adopted ichthyology textbook.

Expanded and updated, the second edition is illustrated throughout with striking color photographs depicting the

spectacular evolutionary adaptations of the most ecologically and taxonomically diverse vertebrate group. The text incorporates the latest advances in the biology of fishes, covering taxonomy, anatomy, physiology, biogeography, ecology, and behavior. A new chapter on genetics and molecular ecology of fishes has been added, and conservation is emphasized throughout. Hundreds of new and redrawn illustrations augment readable text, and every chapter has been revised to reflect the discoveries and greater understanding achieved during the past decade. Written by a team of internationally-recognized authorities, the first edition of *The Diversity of Fishes* was received with enthusiasm and praise, and incorporated into ichthyology and fish biology classes around the globe, at both undergraduate and postgraduate levels. The second edition is a substantial update of an already classic reference and text. Companion resources site This book is

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accompanied by a resources site:

www.wiley.com/go/helfman

The site is being constantly updated by the author team and provides:

- Related videos selected by the authors
- Updates to the book since publication
- Instructor resources
- A chance to send in feedback

Reducing Poverty, Protecting Livelihoods, and Building Assets in a Changing Climate - Dorte Verner 2010-06-25

Climate change is the defining development challenge of our time. More than a global environmental issue, climate change and variability threaten to reverse recent progress in poverty reduction and economic growth. Both now and over the long run, climate change and variability threatens human and social development by restricting the fulfillment of human potential and by disempowering people and communities in reducing their livelihoods options. Communities across Latin America and the Caribbean are

already experiencing adverse consequences from climate change and variability.

Precipitation has increased in the southeastern part of South America, and now often comes in the form of sudden deluges, leading to flooding and soil erosion that endanger people's lives and livelihoods.

Southwestern parts of South America and western Central America are seeing a decrease in precipitation and an increase in droughts. Increasing heat and drought in Northeast Brazil threaten the livelihoods of already-marginal smallholders, and may turn parts of the eastern Amazon rainforest into savannah. The Andean inter-tropical glaciers are shrinking and expected to disappear altogether within the next 20-40 years, with significant consequences for water availability. These environmental changes will impact local livelihoods in unprecedented ways. Poverty, inequality, water access, health, and migration are and will be measurably affected by climate change. Using an

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innovative research methodology, this study finds quantitative evidence of large variations in impacts across regions. Many already poor regions are becoming poorer; traditional livelihoods are being challenged in unprecedented ways; water scarcity is increasing, particularly in poor arid areas; human health is deteriorating; and climate-induced migration is already taking place and may increase. Successfully reducing social vulnerability to climate change and variability requires action and commitment at multiple levels. This volume offers key operational recommendations at the government, community, and household levels with particular emphasis placed on enhancing good governance and technical capacity in the public sector, building social capital in local communities, and protecting the asset base of poor households.

Encyclopedic Dictionary of Polymers - Jan W. Gooch
2010-11-08

This is the first complete book

of polymer terminology ever published. It contains more than 7,500 polymeric material terms. Supplementary electronic material brings important relationships to life, and audio supplements include pronunciation of each term.

The Galapagos Marine Reserve
- Judith Denkinger 2014-01-24

This book focuses on how marine systems respond to natural and anthropogenic perturbations (ENSO, overfishing, pollution, tourism, invasive species, climate-change). Authors explain in their chapters how this information can guide management and conservation actions to help orient and better manage, restore and sustain the ecosystems services and goods that are derived from the ocean, while considering the complex issues that affect the delicate nature of the Islands. This book will contribute to a new understanding of the Galapagos Islands and marine ecosystems.

Ionic Liquids in Chemical Analysis - Mihkel Koel

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2008-10-09

An Overview of a Rapidly Expanding Area in Chemistry Exploring the future in chemical analysis research, Ionic Liquids in Chemical Analysis focuses on materials that promise entirely new ways to perform solution chemistry. It provides a broad overview of the applications of ionic liquids in various areas of analytical chemistry, in *Peripherally Inserted Central Catheters* - Janet Pettit 2007

Effects of EMFs from Undersea Power Cables on Elasmobranchs and Other Marine Species: Final Report - T. Tricas 2012-12-01

Toxicology - Marcelo Larramendy 2016-10-26
This edited book, *Toxicology - New Aspects to This Scientific Conundrum*, is intended to provide an overview on the different xenobiotics employed every day in our anthropogenic activities. We hope that this book will continue to meet the expectations and needs of all interested in the implications

for the living species of known and new toxicants and to guide them in the future investigations.

Biodiversity and Biomedicine - Munir Ozturk 2020-07-15
Biodiversity and Biomedicine: Our Future provides a new outlook on Earth's animal, plant, and fungi species as vital sources for human health treatments. While there are over 10 million various species on the planet, only 2 million have been discovered and named. This book identifies modern ways to incorporate Earth's species into biomedical practices and emphasizes the need for biodiversity conservation. Written by leading biodiversity and biomedical experts, the book begins with new insights on the benefits of biologically active compounds found in fungi and plants, including a chapter on the use of wild fruits as a treatment option. The book goes on to discuss the roles of animals, such as amphibians and reptiles, and how the threatened presence of these species must be reversed to

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conserve biodiversity. It also discusses marine organisms, including plants, animals, and microbes, as essential in contributing to human health. Biodiversity and Biomedicine: Our Future is a vital source for researchers and practitioners specializing in biodiversity and conservation studies. Students in natural medicine and biological conservation will also find this useful to learn of the world's most bio-rich communities and the molecular diversity of various species. Presents new developments in documenting and identifying species for biodiversity conservation and ethical considerations for biodiversity research Examines biodiversity as an irreplaceable resource for biomedical breakthroughs using available species for medical research Discusses challenges and opportunities for biodiversity protection and research in biosphere reserves

Deep-Sea Fishes - Imants G. Priede 2017-08-10
A comprehensive account of deep-sea fishes, covering evolution, ecology and the

potential threats posed by the growing fishing industry. Fishery Products - Hartmut Rehbein 2009-11-16
Food quality and safety issues continue to dominate the press, with most food companies spending large amounts of money to ensure that the food quality and assessment procedures in place are adequate and produce good and safe food. This holds true for companies and laboratories responsible for the processing of fish into various products, those responsible for researching safe new products, and departments within other companies supporting these functions. Fishery Products brings together details of all the major methodologies used to assess the quality of fishery products in the widest sense. Subject coverage of this important book includes chapters on assessment of authenticity, and several chapters on quality assessment using various methods, such as: Texture measurement Electronic nose and tongue NMR Colour measurement This

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timely volume will serve as a vital tool for all those working in the processing of fishery and aquaculture products: including laboratory personnel working in regulatory bodies, food quality control personnel, food scientists, food technologists, nutritionists, seafood trade bodies, seafood labelling regulatory bodies, government food protection agencies and environmental health personnel. Libraries in research establishments and universities where food science, food technology, nutrition, aquaculture, fisheries and biological sciences are studied and taught should have copies of this important publication on their shelves.

Growth and Hyperplasia of Cardiac Muscle Cells - P. P.

Rumyantsev 1991

Proliferative activity of cardiomyocytes and polyploidization of their nuclei during myocardial hypertrophy of non-primates -- On the possibility of an increase in the number of cardiomyocytes during ventricular hypertrophy

-- Chapter 6 Unusual Proliferative Behaviour of Adult Mammalian Atrial Cardiomyocytes -- Hyperplasia of rat atrial cardiomyocytes mediated by experimental left ventricular infarction -- DNA synthesis and mitotic activity of atrial myocytes during myocardial hypertrophy -- Changes in the ultrastructure of myocytes of the rat left atrium after experimental left ventricular infarction -- Chapter 7 On the Possibility of Reactivation of Proliferative Processes in Cardiomyocytes of the Conducting System -- Chapter 8 A Paradoxical Capacity of Working Myocytes of the Overloaded Heart of Man and Primates for Polyploidization -- DNA content in the nuclei of cardiomyocytes during cardiac hyperfunction and hypertrophy -- The question of hyperplasia of human cardiomyocytes during cardiac hypertrophy -- Signs of hyperplasia of perinecrotic cardiomyocytes -- Tumors of the myocardium -- Chapter 9 Attempts to Stimulate Myocardial Regeneration --

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Part III Modulation of Processes of Cardiomyocyte Differentiation and Proliferation in Vitro and in Tissue Transplants -- Chapter 10 Modulations of Differentiation in Tissue Explants of the Myocardium In Vitro -- Chapter 11 Processes of Cardiomyocyte Proliferation and Differentiation in Cell Culture -- Chapter 12 Regenerative Morphogenesis During Auto- and Heterotransplantation of Myocardial Tissue Grafts -- Conclusion -- References -- Subject Index

General Concepts in Integrated Pest and Disease Management - A. Ciancio
2007-07-20

This, the first volume of the 'Integrated Management of Plant Pests and Diseases' book series, presents general concepts on integrated pest and disease management. Section one includes chapters on infection models, resurgence and replacement, plant disease epidemiology and effects of climate change in tropical environments. The

second section includes remote sensing and information technology. Finally, the third section covers molecular aspects of the subject.

Bioactive Marine Natural Products - Dewan S. Bhakuni
2006-06-30

Bioactive Marine Natural Products is the first book available that covers all aspects of bioactive marine natural products. It fills the void in the literature for bioactive marine natural products. The book covers various aspects of marine natural products and it is hoped that all the major classes of bioactive compounds are included. Different classes of marine organisms and the separation and isolation techniques are discussed. The chemistry and biology of marine toxins, peptides, alkaloids, nucleosides and prostanooids are discussed in detail. Biological, toxicological and clinical evaluations are also dealt with to ensure that the book may be adopted at any stage by any practicing organic chemist or biologist,

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working in academia or in R and D divisions of pharmaceutical companies. Each chapter in the book includes an abstract to highlight the major points discussed in the text and concluding remarks are given. References to books, monographs, review articles and original papers are provided at the end of each chapter.

The European Landing Obligation - Sven Sebastian Uhlmann 2018-12-19

This open access book provides a comprehensive examination of the European Landing Obligation policy from many relevant perspectives. It includes evaluations of its impacts at economical, socio-cultural, ecological and institutional levels. It also discusses the feasibility and benefits of several potential mitigation strategies. The book was timely published, exactly at the time where the Landing Obligation was planned to be fully implemented. This book is of significant interest to all stakeholders involved, but also

to the general public of Europe and to other jurisdictions throughout the world that are also searching for ways to deal with by-catch and discard issues.

Micro-and macro-plastics in marine species from Nordic waters - Inger Lise N. Bråte 2017-09-15

This report summarises the knowledge on plastics in Nordic marine species. Nordic biota interacts with plastic pollution, through entanglement and ingestion. Ingestion has been found in many seabirds and also in stranded mammals. Ingestion of plastics has been documented in 14 fish species, which many of them are of ecology and commercially importance. Microplastics have also been found in blue mussels and preliminary studies found synthetic fibres in marine worms. Comparability between and within studies of plastic ingestion by biota from the Nordic environment and other regions are difficult as there are: few studies and different

methods are used. It is important that research is directed towards the knowledge gaps highlighted in this report, to get a better understanding on plastic ingestion and impact on biota from the Nordic marine environment.

British Abstracts - 1943

Evolution's Rainbow - Joan Roughgarden 2013-09-14

In this innovative celebration of diversity and affirmation of individuality in animals and humans, Joan Roughgarden challenges accepted wisdom about gender identity and sexual orientation. A distinguished evolutionary biologist, Roughgarden takes on the medical establishment, the Bible, social science—and even Darwin himself. She leads the reader through a fascinating discussion of diversity in gender and sexuality among fish, reptiles, amphibians, birds, and mammals, including primates. *Evolution's Rainbow* explains how this diversity develops from the action of genes and

hormones and how people come to differ from each other in all aspects of body and behavior. Roughgarden reconstructs primary science in light of feminist, gay, and transgender criticism and redefines our understanding of sex, gender, and sexuality. Witty, playful, and daring, this book will revolutionize our understanding of sexuality. Roughgarden argues that principal elements of Darwinian sexual selection theory are false and suggests a new theory that emphasizes social inclusion and control of access to resources and mating opportunity. She disputes a range of scientific and medical concepts, including Wilson's genetic determinism of behavior, evolutionary psychology, the existence of a gay gene, the role of parenting in determining gender identity, and Dawkins's "selfish gene" as the driver of natural selection. She dares social science to respect the agency and rationality of diverse people; shows that many cultures across the world and

throughout history accommodate people we label today as lesbian, gay, and transgendered; and calls on the Christian religion to acknowledge the Bible's many passages endorsing diversity in gender and sexuality.

Evolution's Rainbow concludes with bold recommendations for improving education in biology, psychology, and medicine; for democratizing genetic engineering and medical practice; and for building a public monument to affirm diversity as one of our nation's defining principles.

Biomimetic Radical Chemistry and Applications -

Chrysostomos Chatgililoglu
2020-03-25

The enormous importance of free radical chemistry for a variety of biological events, including ageing and inflammation, has attracted a strong interest in understanding the related mechanistic steps at the molecular level. Modelling the free radical chemical reactivity of biological systems is an important research area. When

studying free-radical-based chemical mechanisms, biomimetic chemistry and the design of established biomimetic models come into play to perform experiments in a controlled environment that is suitably designed to be in strict connection with cellular conditions. This Special Issue gives the reader a wide overview of biomimetic radical chemistry, where molecular mechanisms have been defined and molecular libraries of products are developed to also be used as traces for the discovery of some relevant biological processes. Several subjects are presented, with 12 articles and 6 reviews written by specialists in the fields of DNA, proteins, lipids, biotechnological applications, and bioinspired synthesis, having "free radicals" as a common denominator.

A Thesaurus of English

Word Roots - Horace Gerald Danner
2014-03-27

Horace G. Danner's A Thesaurus of English Word Roots is a compendium of the most-used word roots of the

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English language. As Timothy B. Noone notes in his foreword: "Dr. Danner's book allows you not only to build up your passive English vocabulary, resulting in word recognition knowledge, but also gives you the rudiments for developing your active English vocabulary, making it possible to infer the meaning of words with which you are not yet acquainted. Your knowledge can now expand and will do so exponentially as your awareness of the roots in English words and your corresponding ability to decode unfamiliar words grows apace. This is the beginning of a fine mental linguistic library: so enjoy!" In *A Thesaurus of English Word Roots*, all word roots are listed alphabetically, along with the Greek or Latin words from which they derive, together with the roots' original meanings. If the current meaning of an individual root differs from the original meaning, that is listed in a separate column. In the examples column, the words which contain the root are then

listed, starting with their prefixes, for example, dysacusia, hyperacusia. These root-starting terms then are followed by terms where the root falls behind the word, e.g., acouesthesia and acoumeter. These words are followed by words where the root falls in the middle or the end, as in such terms as bradyacusia and odyacusis.. In this manner, *A Thesaurus of English Word Roots* places the word in as many word families as there are elements in the word. This work will interest linguists and philologists and anyone interested in the etymological aspects of English language.

The Environmental Behaviour of Polonium -

International Atomic Energy Agency 2018-01-31

Polonium-210 is an alpha emitting radionuclide with no radioactive progeny and produces only very-low-intensity gamma rays at very low abundance. This means doses largely arise from internal exposure. In addition to the relatively high ingestion

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does coefficient of ^{210}Po , radionuclide transfer in the environment results in high activity concentrations in certain foods. This publication focuses on radionuclide transfers in terrestrial, freshwater and marine environments, and provides information on key transfer processes, concepts and models--back cover.

Leeches, Lice and Lampreys - Graham C. Kearn 2007-11-05
Many different kinds of animals have adopted a parasitic life style on the skin and gills of marine and freshwater fishes, including protozoans, flatworms, leeches, a range of crustaceans and even some vertebrates (lampreys). There is a parasitic barnacle, described first in the 19th century by Charles Darwin, fish lice that change sex and bivalve molluscs parasitic only when young. This book explores for the first time in one volume, the remarkable biology of these little known and frequently bizarre animals. The following closely interwoven themes are

considered for each group of parasites: how they find their hosts, how they attach, feed and reproduce, the damage they inflict and how the host's immune system retaliates. Based on the British fauna, but extending where appropriate to examples from North America, Australia and elsewhere, the book is essential reading, not just for the professional parasitologist, but also for anyone interested in fishes and in this neglected field of British natural history. With the enquiring naturalist in mind, terms and concepts are explained as they arise, backed up by a glossary, and the text is liberally illustrated. An introductory chapter on fish biology sets the scene and common fish names are used throughout, as well as scientific names.

Assuring the Integrity of the Food Chain: Turning Science Into Solutions. Program & Book of Abstracts. FoodIntegrity 2017 Conference (Parma, 10-11 Maggio 2017) -
Michele Suman 2017

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Parathyroid Gland - 1976

Biobased Products from Food Sector Waste - Teresa Cecchi 2021-10-18

An increased demand for waste upcycling has prompted the food industry to become more efficient in its handling of waste. Efficient utilization of food waste is of concern to consumers, environmentalists, and policy makers. In the past, food waste has been used for the production of bio-gas and bio-fuels, fertilizers and animal feed. Biobased products from food sector waste: Bioplastics, biocomposites, and biocascading proposes an innovative use of food waste—as filler in a bioplastic matrix. The upcycling of food industry waste to produce new composites has a number of beneficial features, including (i) avoiding the cost of waste disposal; (ii) reducing bio-based composites price; (iii) avoiding using edible resources as a starting material for bio-based composites (to eliminate competition between biomass use for food, feed, and material

use); (iv) producing a non-food bio-based output different from existing outputs (bio-fuels or bio-energy). The production of value-added items supports the development of a circular and sustainable economy in a thriving bio-based sector via the emergence of food value chains. The authors explore the safety of bio-based products. Using an evidence-based approach, they detail the volatile profile of biobased products and underline the absence of priority air pollutants released by fossil plastics, which pose a significant public health threat. The volume also delves into socioeconomic considerations and environmental concerns related to the upcycling of food by-products. Finally, the authors address how advances in digital technology can make food waste upcycling a negative-cost process.

The Cambridge Handbook of Animal Cognition - Allison B. Kaufman 2021-06-30

This handbook lays out the science behind how animals think, remember, create,

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calculate, and remember. It provides concise overviews on major areas of study such as animal communication and language, memory and recall, social cognition, social learning and teaching, numerical and quantitative abilities, as well as innovation and problem solving. The chapters also explore more nuanced topics in greater detail, showing how the research was conducted and how it can be used for further study. The authors range from academics working in renowned university departments to those from research institutions and practitioners in zoos. The volume encompasses a wide variety of species, ensuring the breadth of the field is explored.

Selected Water Resources Abstracts - 1988

Fish Welfare - Edward J. Branson 2008-04-30
Fish have the same stress response and powers of nociception as mammals. Their behavioural responses to a variety of situations suggest a considerable ability for higher

level neural processing - a level of consciousness equivalent perhaps to that attributed to mammals. Each chapter of this book has been written by specialists in their field. The subject matter is wide ranging and covers in detail concepts of animal welfare in addition to more specific aspects of fish welfare. Philosophical concepts of welfare are discussed along with more practical areas of fish welfare encompassing all husbandry and management activities that have a potential to affect the welfare of the fish in our care. This book is an essential purchase for fish veterinarians, fish farmers, fish biologists and those involved in the aquaculture industry and its regulation.

The Histology of Fishes - Krzysztof Formicki 2019-10-08
The book is a multi-authored book of 18 chapters comprising the state of the art work of all relevant topics on modern fish histology from 28 authors from ten countries. The topics include Introduction to Histological Techniques,

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Integument, Fish Skeletal Tissues, Muscular System, Structure and Function of Electric Organs, Digestive System, Glands of the Digestive Tract, Swim Bladder, Kidney, Ovaries and Eggs, Egg Envelopes, Testis Structure, Spermatogenesis, and Spermatozoa in Teleost Fishes, Cardiovascular System and Blood, Immune System of Fish, Gills: Respiration and Ionic-Osmoregulation, Sensory Organs, Morphology and Ecomorphology of the Fish Brain, and Endocrine System. Structural and functional aspects are treated and in a comparative way fish diversity at various taxonomic levels is integrated.

Vertebrate Photoreceptors - Takahisa Furukawa 2014-04-15
This book provides a series of comprehensive views on various important aspects of vertebrate photoreceptors. The vertebrate retina is a tissue that provides unique experimental advantages to neuroscientists. Photoreceptor neurons are abundant in this tissue and they are readily

identifiable and easily isolated. These features make them an outstanding model for studying neuronal mechanisms of signal transduction, adaptation, synaptic transmission, development, differentiation, diseases and regeneration. Thanks to recent advances in genetic analysis, it also is possible to link biochemical and physiological investigations to understand the molecular mechanisms of vertebrate photoreceptors within a functioning retina in a living animal. Photoreceptors are the most deeply studied sensory receptor cells, but readers will find that many important questions remain. We still do not know how photoreceptors, visual pigments and their signaling pathways evolved, how they were generated and how they are maintained. This book will make clear what is known and what is not known. The chapters are selected from fields of studies that have contributed to a broad understanding of the birth, development, structure,

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function and death of photoreceptor neurons. The underlying common word in all of the chapters that is used to describe these mechanisms is "molecule". Only with this word can we understand how these highly specific neurons function and survive. It is challenging for even the foremost researchers to cover

all aspects of the subject. Understanding photoreceptors from several different points of view that share a molecular perspective will provide readers with a useful interdisciplinary perspective.

The Elasmobranch Husbandry Manual - Mark F. L. Smith 2004