

Gecko La C Opard Eublepharis Macularius

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Genes and Mechanisms in Vertebrate Sex Determination Gerd Scherer 2013-04-17 Following an opening chapter by the late Susumu Ohno on paralogues of sex-determining genes, the five best-studied genes essential for early mammalian gonadal development are portrayed in detail: SF-1 and WT1 and their roles in early events in gonadal development, SRY and SOX9 in testis determination, and the anti-testis gene DAX-1. Subsequent chapters look at the roles of these genes in sex determination in marsupial mammals, birds, reptiles, amphibians and fish, and review the different sex-determining mechanisms, genetic and environmental, that operate in these different vertebrate classes. Two insights emerge: one, that the same basic set of genes appears to operate during early gonadal development in all vertebrates, despite the differences in mechanisms; the other, that sex determination in vertebrates results from a complex network of regulatory interactions and not from a simple hierarchical cascade of gene actions.

Evolutionary Ecology Charles W. Fox 2001 This text unifies conceptual and empirical advances in evolutionary ecology, and the focus is on current concepts in evolutionary ecology and the empirical study of these concepts. The book is divided into five sections: an overview of the major topics in evolutionary biology for ecologists, sections on life histories, behavior, coevolution, and adaptation to anthropogenic change. (Midwest).

Escaping From Predators William E. Cooper, Jr 2015-05-28 When a predator attacks, prey are faced with a series of 'if', 'when' and 'how' escape decisions - these critical questions are the foci of this book. Cooper and Blumstein bring together a balance of theory and empirical research to summarise over fifty years of scattered research and benchmark current thinking in the rapidly expanding literature on the behavioural ecology of escaping. The book consolidates current and new behaviour models with taxonomically divided empirical chapters that demonstrate the application of escape theory to different groups. The chapters integrate behaviour with physiology, genetics and evolution to lead the reader through the complex decisions faced by prey during a predator attack, examining how these decisions interact with life history and individual variation. The chapter on best practice field methodology and the ideas for future research presented throughout, ensure this volume is practical as well as informative.

Index Medicus 2004

The Notochord P. Eckhard Witten 2022-04-29 Although it is the defining organ of the Chordata, the notochord and its cells are one of the least understood vertebrate organs. This may be because large parts of the notochord are often replaced with cartilaginous or bony vertebral bodies. The presence of

cartilage in the notochord raises questions about the evolutionary relationships between notochord cells and cartilage cells. This book integrates classical analytical studies with recent palaeontological, experimental, and molecular studies in both developmental and evolutionary contexts. For example, although the early signaling function of the notochord is conserved across the vertebrates, many will be surprised to find that the role of the notochord in vertebral body development in tetrapods is not the blueprint for all vertebrates. Recent studies on zebrafish and medaka embryos have uncovered the molecular mechanisms of a somite-independent notochord-driven segmentation process that establishes vertebral centra and intervertebral spaces. As this process is not restricted to teleosts, the authors have written a general discussion about the role of the notochord in vertebral formation. Modularity and segmentation of the vertebral column are related topics. Further overarching themes are the structure, function and fate of the notochord in adult vertebrates and notochord-cartilage relationships. Key Features The first book devoted to notochord development, function and evolution Includes and integrates information on the notochord from studies going back 169 years Integrates developmental, molecular, functional, experimental and palaeontological studies Documents the fate of the notochord across the vertebrates Extensively illustrated with classical and new images Related Titles Bard, J. Evolution: The Origins and Mechanisms of Diversity (ISBN 978-0-3673-5701-6) Leys, S. and Hejzol. A. Origin and Evolution of Metazoan Cell Types (ISBN 978-1-1380-3269-9)

New Perspectives in Regeneration Ellen Heber-Katz 2014-07-08 Regeneration, the homeostatic ability to maintain tissue structure in the face of normal cell turnover or loss of tissue damaged by trauma or disease, is an essential developmental process that continues throughout life. As recently as a decade ago, any serious discussion of the possibility of regeneration becoming a practical medical tool in the near future had the air of science fiction or over-optimistic speculation. The term “regenerative medicine” was certainly on many lips but few actually expected to soon see it applied in a clinical setting. A tidal wave of discovery has changed that and investigating the cellular mechanisms of natural regeneration has become one of the hottest topics in developmental biology and biomedicine in general. Many researchers entering the field find that the regeneration literature is still quite diffuse perhaps owing to the disparate biological systems that have been the object of study including hydra, planaria, newts, axolotls and more recently several mouse strains. The volume editors believe that an attempt to organize or systematize the literature is long overdue. In this volume, respected experts highlight the latest findings in vertebrate (including mammals) wound healing and regeneration. They present eleven reviews that cover a wide range of topics, from wound repair and its relationship to regeneration, through systems including lenticular, neural, and musculoskeletal tissues and limbs, to epigenetics and the role of the cell cycle. Nuclear reprogramming and cellular plasticity, which open the door for potential regenerative medical therapies for injury and degenerative disease, are recurring themes throughout the book. We are all now part of the regeneration revolution.

Infectious Diseases and Pathology of Reptiles Elliott R. Jacobson 2007-04-11 Far from the line drawings and black-and-white photos of the past, Infectious Diseases and Pathology of Reptiles features high-quality, color photos of normal anatomy and histology, as well as gross, light, and electron microscopic images of pathogens and diseases. Many of these images have never before been published, and come directly from

Genetics of Sex Determination R.S. Verma 1996-04-23 The Genetical Theory of Natural Selection by R.A. Fisher (1930) dictated that sexual dimorphisms may depend upon a single mendelian factor. This could be true for some species but his suggestion could not take off the ground as gender in *Drosophila* is determined by the number of X chromosomes. Technical advances in molecular biology have revived the initial thinking of Fisher and dictate that TDF or SRY genes in humans or Tdy in mice are sex

determining genes. The fortuitous findings of XX males and XY female, which are generally termed sex reversal phenomenon, are quite bewildering traits that have caused much amazement concerning the pairing mechanism(s) of the pseudoautosomal regions of human X and Y chromosomes at meiosis. These findings have opened new avenues to explore further the genetic basis of sex determination at the single gene level. The aim of the fourth volume, titled Genetics of Sex Determination is to reflect on the latest advances and future investigative directions, encompassing 10 chapters. Commissioned several distinguished scientists, all pre-eminent authorities in each field to shed their thoughts concisely but epitomise their chapters with an extended bibliography. Obviously, during the past 60 years, the meteoric advances are voluminous and to cover every account of genes, chromosomes, and sex in a single volume format would be a herculean task. Therefore, a few specific topics are chosen, which may be of great interest to scientists and clinicians. The seasoned scientists who love to inquire about the role of genes in sex determination should find the original work of these notable contributors very enlightening. This volume is intended for advanced students who want to keep abreast as well as for those who indulge in the search for genes of sex determination.

Free Radicals, Oxidative Stress, and Antioxidants Tomris Özben 2013-06-29 There has been an explosion of research related to free radicals and antioxidants in recent years, and hundreds of laboratories worldwide are actively involved in many aspects of free radicals, oxidative stress, and antioxidants. The literature on these topics increases exponentially every year. Over the last few years, we have been fortunate to witness a widespread recognition of the important role of free radicals in a wide variety of pathological conditions including diseases such as atherosclerosis, cardiovascular and neurological diseases, ischemia, emphysema, diabetes, radiation injury, cancer, etc. In addition, many laboratories are studying the role of free radicals in the inexorable process of aging. Increased evidence involves free radicals with the etiology of various diseases, thereby suggesting the use of antioxidants as a viable therapeutic approach for the treatment of free radical mediated pathologies. Despite these impressive developments, many important aspects of free radical and antioxidant research are open for investigation. It is important to understand the overall mechanisms involved in free radical mediated physiological and pathological conditions. This knowledge will undoubtedly lead to the development of new therapeutic approaches to prevent or control free radical related diseases. This book contains the proceedings of the NATO Advanced Study Institute (ASI) on "Free Radicals, Oxidative Stress, and Antioxidants: Pathological and Physiological Significance," which was held in Antalya, Turkey from May 24-June 4, 1997.

The Eyelash Geckos Hermann Seufer 2005

Cumulated Index Medicus 2000

Hormones, Brain and Behavior 2016-11-09 Hormones, Brain and Behavior, Third Edition offers a state-of-the-art overview of hormonally-mediated behaviors, including an extensive discussion of the effects of hormones on insects, fish, amphibians, birds, rodents, and humans. Entries have been carefully designed to provide a valuable source of information for students and researchers in neuroendocrinology and those working in related areas, such as biology, psychology, psychiatry, and neurology. This third edition has been substantially restructured to include both foundational information and recent developments in the field. Continuing the emphasis on interdisciplinary research and practical applications, the book includes articles aligned in five main subject sections, with new chapters included on genetic and genomic techniques and clinical investigations. This reference provides unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics. The topics cover an unusual breadth (from

molecules to ecophysiology), ranging from basic science to clinical research, making this reference of interest to a broad range of scientists in a variety of fields. Comprehensive and updated coverage of a rapidly growing field of research Unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics Covers an unusual breadth of topics and subject fields, ranging from molecules to ecophysiology, and from basic science to clinical research Ideal resource for interdisciplinary learning and understanding in the fields of hormones and behavior

Geckos Aaron M. Bauer 2013-03-15 Everything a student, naturalist, or curious observer wants to know about the biology and diversity of geckos. Q: How do geckos walk across ceilings? A: Millions of hair-like setae on each foot. Q: Where do geckos come from? A: Throughout the world. Usually where it's warm. Q: How many species of geckos are there? A: Close to 1,500 and counting! Q: What do they eat? A: Insects mostly. Discover the biology, natural history, and diversity of geckos—the acrobatic little lizards made famous by a car insurance ad campaign. Lizard biologist and gecko expert Aaron Bauer answers deceptively simple questions with surprising and little-known facts. Readers can explore color photographs that reveal the natural wonder and beauty of the gecko form and are further informed by images of how geckos live in their natural habitats. Although written for nonexperts, *Geckos* also provides a carefully selected bibliography and a new list of all known species that will be of interest to herpetologists. Anyone who owns a gecko, has seen them in the wild, or has wondered about them will appreciate this gem of a book.

Cytochrome Oxidase in Neuronal Metabolism and Alzheimer's Disease Francisco Gonzalez-Lima 2013-06-29 This book is based on an international symposium titled "Cytochrome oxidase in energy metabolism and Alzheimer's disease," held as a satellite to the 27th meeting of the Society for Neuroscience, New Orleans, 1997. The symposium was dedicated in honor of Dr. Margaret T. T. Wong-Riley because, in our opinion, the cytochrome oxidase histochemical method introduced by Dr. Wong-Riley in 1979 was the most significant breakthrough to map energy metabolism in the entire brain since the 2-deoxyglucose method introduced by Dr. Louis Sokoloff and colleagues in 1977. Both of these metabolic mapping techniques have made monumental contributions to brain research by allowing an integral view of brain activity. They have also developed into various specialized techniques, including applications to the human brain. One of these new applications, which is described in detail in this book, is the quantitative cytochrome oxidase cytochemical method used to study Alzheimer's disease. The objective of this book is to describe the role of cytochrome oxidase in neuronal metabolism and Alzheimer's disease. Whether genetic or environmental, the pathogenesis of Alzheimer's disease involves a cascade of multiple intracellular events, eventually resulting in failure of oxidative energy metabolism. Could impairment of cytochrome oxidase in energy metabolism initiate the degenerative process? Cytochrome oxidase function and dysfunction are discussed in relationship to neuronal energy metabolism, neurodegeneration, and Alzheimer's disease. The book is made up of 10 chapters, divided into three major parts.

Nutrition, An Issue of Veterinary Clinics of North America: Exotic Animal Practice, Jörg Mayer 2014-07-31 Dr. Jörg Mayer has assembled an expert panel of authors on the topic of nutrition in exotic animals. Articles include: Prescription diets for exotic pets, Supplements for exotic pets, Nutrition for reptiles, Nutrition for avians, Nutrition for amphibians, Nutrition for fish, Nutrition for marsupials, Nutrition for rodents, and Nutrition for Rabbits.

Behavior, An Issue of Veterinary Clinics of North America: Exotic Animal Practice Ebook Marion Desmarchelier 2020-11-21 This issue of *Veterinary Clinics: Exotic Animal Practice*, guest edited by Dr.

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Marion R. Desmarchelier, focuses on Behavior. This is one of three issues each year selected by the series consulting editor, Dr. Jörg Mayer. Articles in this issue include, but are not limited to: Behavior modifications for the exotic pet practitioner, Psychopharmacology for the exotic pet practitioner, Ferret behavior medicine, Rabbit behavior medicine, Pot-bellied pig behavior medicine, Abnormal repetitive behaviors and self-mutilations in small mammals, Medical causes of feather damaging behavior, Avian behavior consultation for the exotic pet practitioner, Bird of Prey behavior for the avian practitioner, Clinical reptile behavior, Amphibian behavior for the exotic pet practitioner, Fish behavior for the exotic pet practitioner, Invertebrate behavior for the exotic pet practitioner, and Non-human primate clinical behavior

Choosing Sexes Kristen J. Navara 2018-02-01 There is extensive evidence that vertebrates of all classes have the ability to control the sexes of the offspring they produce. Despite dramatic differences in the mechanisms by which different taxa determine the initial sex of offspring, each group has found its own way of adjusting offspring sex ratios in response to social and environmental cues. For example, stress is a well-known modulator of offspring sex in members of all groups studied to date. Food availability, and limitation in particular, is another common cue that stimulates biases in offspring sex ratios in a wide variety of species. Offspring sex can be adjusted at the primary level, which occurs prior to conception, or at the secondary level, during embryonic development. While the mechanistic pathways that ultimately result in sex ratio biases and the developmental time-points sensitive to those mechanisms likely differ among taxa, the key involvement of steroid hormones in the process of sex ratio adjustment appears to be pervasive throughout. This book reviews the systems of sex determination at play in different vertebrate groups, summarizes the evidence that members of all vertebrate taxa can facultatively adjust offspring sex, and discusses when and how these adjustments can take place.

The Leopard Gecko Manual Philippe De Vosjoil 2017-09-12 The leopard gecko has fast become the reptilian version of the parakeet or goldfish. Considered to be the first domesticated species of lizard, the leopard gecko is attractive, perfectly sized, and easy to breed. Leopard Gecko Manual takes a close look at all the characteristics that have made these attractive lizards so amazingly popular in the pet world. Written by a team of herpetoculture experts and gecko specialists, this up-to-date and authoritative guide provides reliable guidelines for keepers who wish to add a gecko to their vivarium and maintain their pet in excellent health and condition. This second edition is revised and expanded to include new sections on Gecko nutrition and feeding, housing, breeding, and banded Geckos. Inside the Leopard Gecko Manual: How to select leopard geckos as pets or for breeding Understanding the anatomy and behavior of these fascinating lizards Feeding your leopard gecko a nutritionally sound diet, with the latest insights on feeder insects and prepared foods How to design and maintain the ideal naturalistic habitat for your leopard gecko Detailed information on all aspects of breeding, egg-laying, and incubation What you need to know about skin shedding cycles and tail loss Recognizing signs of disease and how to handle health issues Special chapters on African fat-tailed geckos and other eublepharids

Collecting and Preserving Genetic Material for Herpetological Research Tony Gamble
2014-04-01

Lizards of Patagonia Mariana Morando 2020-08-23 This book presents a critical and integrated review of lizards from Patagonia. It summarizes the region's geomorphological history and climatic aspects, which makes it possible to interpret, from an evolutionary perspective, the latest findings on the various natural history aspects of its lizard fauna. As such, the book will appeal to all researchers and

professionals specialized in lizard ecology and evolution.

Canadian Journal of Zoology 2013-07

Morphological and Cellular Aspects of Tail and Limb Regeneration in Lizards Lorenzo Alibardi 2009-11-26 The present review covers a very neglected field in regeneration studies, namely, tissue and organ regeneration in reptiles, especially represented by the lizard model of regeneration. The term "regeneration" is intended here as "the ability of an adult organism to recover damaged or completely lost body parts or organs." The process of recovery is further termed "restitutive regeneration" when the lost part is reformed and capable of performing the complete or partial physiological activity performed by the original, lost body part. Lizards represent the only amniotes that at the same time show successful organ regeneration, in the tail, and organ failure, in the limb (Marcucci 1930a, b; Simpson 1961, 1970, 1983). This condition offers a unique opportunity to study at the same time mechanisms that in different regions of the same animal control the success or failure of regeneration. The lizard model is usually neglected in the literature despite the fact that the lizard is an amniote with a basic histological structure similar to that of mammals, and it is therefore a better model than the salamander (an a- mniote) model to investigate regeneration issues.

The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals Robert C. Hubrecht 2010-01-19 The seminal reference on the care of laboratory and captive animals, *The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals* is a must-have for anyone working in this field. The UFAW Handbook has been the definitive text since 1947. Written for an international audience, it contains contributions from experts from around the world. The book focuses on best practice principles throughout, providing comprehensive coverage, with all chapters being peer reviewed by anonymous referees. As well as addressing the husbandry of laboratory animals, the content is also of great value to zoos and aquaria. Changes for the eighth edition: Revised and updated to reflect developments since publication of the previous edition. New chapters on areas of growing concern, including: the 3Rs; phenotyping; statistics and experimental design; welfare assessment; legislation; training of people caring for lab animals; and euthanasia. All material combined into one volume for ease of reference. This book is published on behalf of UFAW (The Universities Federation for Animal Welfare), with whom we also publish the UFAW/Wiley-Blackwell Animal Welfare Book Series. This major series of books provides an authoritative source of information on worldwide developments, current thinking and best practice in the field of animal welfare science and technology. For details of all of the titles in the series see <http://www.wiley.com/go/ufaw> www.wiley.com/go/ufaw/a.

Hormones, Brain, and Behavior Carl Gans 1992-06-01 This is the first volume to integrate information on ways in which the nervous and endocrine systems interact to mediate crucial aspects of reptile behavior. Although the authors pay particular attention to reproductive behavior, from initial recognition and evaluation of potential partners to decisions about reproduction, they also deal with other survival behaviors.

Reproductive Biology and Phylogeny of Lizards and Tuatara Justin L. Rheubert 2014-12-19 *Reproductive Biology and Phylogeny of Lizards and Tuatara* is a remarkable compendium of chapters written by the world's leading experts from over four continents. The book begins with a chapter recounting historical discoveries in reproductive biology and a review of phylogenetics and up-to-date hypotheses concerning evolutionary relationships among lizards. Following these chapters are detailed reviews with additional new data concerning chemical communication, sexual selection, reproductive cues, female reproductive anatomy, female reproductive cycles, oogenesis, parthenogenesis, male

reproductive anatomy, male reproductive cycles, spermatogenesis, reproductive investment, viviparity and placentation, multiple paternity, and parental care. The book culminates in two chapters on tuatara reproduction giving unique insight into evolutionary patterns in reproductive biology in squamates and tuatara. This is an essential resource for anyone studying reproduction in reptiles and/or vertebrates and offers a fascinating read for those interested in reproductive biology.

Behavior of Lizards Vincent Bels 2019-02-06 Key features: Presents a contemporary snapshot of the mechanisms underlying the evolution and adaptation of behavior Explores how genetics, epigenetics, development, and environment shape behavior Discusses a broad range of behavioral repertoires and responses, including those related to thermoregulatory, foraging, predatory, displaying, social and escape strategies. Examines physiological and sensory mechanisms Covers the effects of various aspects of global change on behavior, with chapters that focus on the impacts of climate change on hydroregulatory behavior and behavioral responses to the effects of habitat alteration resulting from human-mediated change and colonization by invasive species. Lizards serve as focal organisms for many of biological questions related to evolution, ecology, physiology, and morphology. They are studied at multiple spatial and temporal scales, from the individual to the community level. This book, authored by expert contributors from around the world, explores behaviors underlying the evolution and adaptation of these organisms. It covers conceptual, empirical, and methodological approaches to the understanding of the role that natural and sexual selection play in molding the behavioral traits of lizards. This thorough, illustrated reference should stimulate discussion of the conceptual and methodological approaches for studying the behavioral traits of these fascinating and highly diverse vertebrates.

Temperature-Dependent Sex Determination in Vertebrates Nicole Valenzuela 2004 Edited by the world's foremost authorities on the subject, with essays by leading scholars in the field, this work shows how the sex of reptiles and many fish is determined not by the chromosomes they inherit but by the temperature at which incubation takes place.

Developmental Programming of Vertebrate Health and Disease Gina Galli 2021-05-25

Reptile Medicine and Surgery in Clinical Practice Bob Doneley 2017-11-17 A concise and practical quick reference guide to treating reptiles in first opinion veterinary practice Reptile Medicine and Surgery in Clinical Practice is the ideal guide for the busy veterinarian treating reptile cases. Designed as a quick reference guide, but with comprehensive coverage of all the topics needed for first opinion practice, the book presents the principles of reptile medicine and surgery. Richly illustrated chapters cover anatomy, physiology, behaviour, husbandry, reproduction, common diseases and disorders, and much more. Application in a clinical setting is emphasized throughout, including guidance on the physical examination, diagnostic testing and imaging, treatment options, and anaesthetic and surgical techniques. Practical quick-reference guide—ideal for the busy, first-opinion veterinary practitioner Richly illustrated in full colour throughout Edited by a team of highly experienced exotic animal veterinarians Useful reference for those studying for postgraduate certificates in exotic animal medicine With contributions from experts around the globe, Reptile Medicine and Surgery in Clinical Practice is a valuable reference offering a balanced international view of herpetological medicine.

Wildlife Review 1993

The Photo Ark Joel Sartore 2017 This lush book of photography represents National Geographic's Photo

Ark, a major cross-platform initiative and lifelong project by photographer Joel Sartore to make portraits of the world's animals-especially those that are endangered. His powerful message, conveyed with humor, compassion, and art- to know these animals is to save them.Sartore intends to photograph every animal in captivity in the world. He is circling the globe, visiting zoos and wildlife rescue centers to create studio portraits of 12,000 species, with an emphasis on those facing extinction. He has photographed more than 6,000 already and now, thanks to a multi-year partnership with National Geographic, he may reach his goal. This book showcases his animal portraits- from tiny to mammoth, from the Florida grasshopper sparrow to the greater one-horned rhinoceros. Paired with the eloquent prose of veteran wildlife writer Douglas Chadwick, this book presents a thought-provoking argument for saving all the species of our planet.

Leopard Gecko Lance Jepson 2011-07-01 The more you know about your Leopard Gecko, the better you will be able to provide the care and attention your pet requires for a healthy and happy life. The pet expert guide offers comprehensive advice on every aspect of leopard gecko care. Learn all about Setting up your vivarium, vivarium maintenance, the correct environment, leopard gecko behaviour, feeding, nutrition and health.

Innovations in Molecular Mechanisms and Tissue Engineering Jeanne Wilson-Rawls 2016-12-10 This book marries stem cell biology, tissue engineering, and regenerative biology into a single, interdisciplinary volume. The chapters also explore embryonic stem cells, induced pluripotent stem cells, cardiovascular regeneration, skeletal development, inflammation, polymeric biomaterials, neural injury, cartilage regeneration, regeneration in amblystoma, models for regeneration using salamander and zebrafish, and more. The volume also discusses recent advances and their potential in developing future therapies. *Innovations in Molecular Mechanisms and Tissue Engineering* combines perspectives from the biomedical, bioengineering, and medical fields to present a cutting-edge, multifaceted picture of the tissue engineering and regenerative medicine fields. This installment of Springer's Stem Cell Biology and Regenerative Medicine series is ideal for scientists, clinicians, and researchers in the fields of stem cell biology, regenerative medicine, biomedical engineering, and tissue engineering.

Library of Congress Subject Headings Library of Congress 2010

Biology and Conservation of Ridley Sea Turtles Pamela T. Plotkin 2007-03 The smallest of the sea turtles, olive and Kemp's ridleys are the only marine turtles to exhibit mass-nesting behavior, known as arribadas. This fascinating phenomenon, during which one could literally walk shell-to-shell across a beach, is considered one of the most amazing wonders of nature. In *Biology and Conservation of Ridley Sea Turtles*, Pamela T. Plotkin brings together the world's experts on the genus *Lepidochelys* to present the first comprehensive, book-length examination of these fascinating animals. Featuring the writings of noted experts including Peter C. H. Pritchard, Jack Frazier, Rene Márquez-M., and Donna J. Shaver, the volume synthesizes over a half century of research. With chapters focused on evolution, development, genetics, physiology, reproduction, migration, and conservation, this book combines a wealth of knowledge and describes an agenda for further research. An integral part of oceanic ecosystems, ridleys present challenges for conservation. Olive ridleys are abundant in some areas and declining in others, whereas Kemp's ridleys are endangered but slowly recovering. Both face beach-based threats and are prone to capture by commercial fisheries. Here Plotkin and her colleagues reveal the nature of these species and the steps needed to make sure they remain a permanent part of the marine environment.

Life's rewards Richard J. Beninger 2018-07-19 Since its discovery in the 1960s, a vast and wide-

ranging body of research has accumulated about the dopaminergic system. *Life's Rewards: Linking Dopamine, Incentive Learning, Schizophrenia, and the Mind* offers a broad synthesis of our current understanding of this chemical, addressing, amongst others, its intricate relationship with learning and memory, psychopathology, social co-operation, and drug abuse. Aimed at students and researchers in neuroscience and psychology, *Life's Rewards: Linking Dopamine, Incentive Learning, Schizophrenia, and the Mind* is essential reading for anyone interested in the relationship between dopamine and reward-related incentive learning.

Mass Production of Beneficial Organisms Juan A. Morales-Ramos 2022-09-30 *Mass Production of Beneficial Organisms: Invertebrates and Entomopathogens, Second Edition* explores the latest advancements and technologies for large-scale rearing and manipulation of natural enemies while presenting ways of improving success rate, predictability of biological control procedures, and demonstrating their safe and effective use. Organized into three sections, Parasitoids and Predators, Pathogens, and Invertebrates for Other Applications, this second edition contains important new information on production technology of predatory mites and hymenopteran parasitoids for biological control, application of insects in the food industry and production methods of insects for feed and food, and production of bumble bees for pollination. Beneficial organisms include not only insect predators and parasitoids, but also mite predators, nematodes, fungi, bacteria and viruses. In the past two decades, tremendous advances have been achieved in developing technology for producing these organisms. Despite that and the globally growing research and interest in biological control and biotechnology applications, commercialization of these technologies is still in progress. This is an essential reference and teaching tool for researchers in developed and developing countries working to produce "natural enemies in biological control and integrated pest management programs. Highlights the most advanced and current techniques for mass production of beneficial organisms and methods of evaluation and quality assessment Presents methods for developing artificial diets and reviews the evaluation and assurance of the quality of mass-produced arthropods Provides an outlook of the growing industry of insects as food and feed and describes methods for mass producing the most important insect species used as animal food and food ingredients

Antipredator Defenses in Birds and Mammals Tim Caro 2005-09 Tim Caro explores the many & varied ways in which prey species have evolved defensive characteristics and behaviour to confuse, outperform or outwit their predators, from the camouflaged coat of the giraffe to the extraordinary way in which South American sealions ward off the attacks of killer whales.

Handbook of Exotic Pet Medicine Marie Kubiak 2020-08-24 Easy-to-use, comprehensive reference covering the less common species encountered in general veterinary practice *Handbook of Exotic Pet Medicine* provides easy-to-access, detailed information on a wide variety of exotic species that can be encountered in general veterinary practice. Offering excellent coverage of topics such as basic techniques, preventative health measures, and a formulary for each species, each chapter uses the same easy-to-follow format so that users can find information quickly while working in the clinic. Presented in full colour, with over 400 photographs, the book gives small animal practitioners the confidence to handle and treat more familiar pets such as budgerigars, African grey parrots, bearded dragons, corn snakes, tortoises, pygmy hedgehogs, hamsters and rats. Other species that may be presented less frequently including skunks, marmosets, sugar gliders, koi carp, chameleons and terrapins are also covered in detail to enable clinicians to quickly access relevant information. Provides comprehensive coverage of many exotic pet species that veterinarians may encounter in general practice situations Presents evidence-based discussions of topics including biological parameters, husbandry, clinical evaluation, hospitalization requirements, common medical and surgical conditions,

radiographic imaging, and more The Handbook of Exotic Pet Medicine is an ideal one-stop reference for the busy general practitioner seeing the occasional exotic animal, veterinary surgeons with an established exotic animal caseload, veterinary students and veterinary nurses wishing to further their knowledge.

Hormones, Brain and Behavior Online 2002-06-18 Hormones, Brain, and Behavior, Second Edition is a comprehensive work discussing the effect of hormones on the brain and, subsequently, behavior. This major reference work has 109 chapters covering a broad range of topics with an extensive discussion of the effects of hormones on insects, fish, amphibians, birds, rodents, and humans. To truly understand all aspects of our behavior, we must take every influence (including the hormonal influences) into consideration. Donald Pfaff and a number of well-qualified editors examine and discuss how we are influenced by hormonal factors, offering insight, and information on the lives of a variety of species. Hormones, Brain, and Behavior offers the reader comprehensive coverage of growing field of research, with a state-of-the-art overview of hormonally-mediated behaviors. This reference provides unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics. The topics cover an unusual breadth (from molecules to ecophysiology), ranging from basic science to clinical research, making this reference of interest to a broad range of scientists in a variety of fields. Available online exclusively via ScienceDirect. A limited edition print version is also available. Comprehensive coverage of a growing field of research Unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics Covers an unusual breadth ranging from molecules to ecophysiology, and from basic science to clinical research