

BIOLOGY and EVOLUTION of **CROCODYLIANS**

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Biology And Evolution Of Crocodylians

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Biology And Evolution Of Crocodylians:

Biology and Evolution of Crocodylians Gordon Grigg, David Kirshner, 2015-01-15 Biology and Evolution of Crocodylians is a comprehensive review of current knowledge about the world's largest and most famous living reptiles. Gordon Grigg's authoritative and accessible text and David Kirshner's stunning interpretive artwork and colour photographs combine expertly in this contemporary celebration of crocodiles, alligators, caimans and gharials. This book showcases the skills and capabilities that allow crocodylians to live how and where they do. It covers the biology and ecology of the extant species, conservation issues, crocodylian-human interaction and the evolutionary history of the group and includes a vast amount of new information. 25 per cent of 1100 cited publications have appeared since 2007. Richly illustrated with more than 500 colour photographs and black and white illustrations, this book will be a benchmark reference work for crocodylian biologists, herpetologists and vertebrate biologists for years to come. *What We Get Wrong About Crocodilians*, 2024-12-06 Crocodilians are one of the most interesting yet misunderstood predators on this planet. Much about what we know surrounding crocodilians is rooted in a history that is full of false information. Subjects such as enormous crocodilians, the history of alligators living in sewers and their evolution are usually answered with faulty facts. In addition, there is still much we don't understand about these animals such as their taxonomy, biology, behavior and more. Did you know crocodilians show signs of regeneration? What's going on there? To find the truth in all the lies, exaggerations or unknowns, one must either spend decades studying these animals or pay a hefty price buying complex literature. *What We Get Wrong About Crocodilians* fixes these problems. The book looks over myths, misconceptions and mysteries surrounding these animals for an affordable price and is written for a more general audience to understand. The topics discussed range from the 5th century B.C.E. to present day. Some of the topics will be recognizable, some are generally unknown to many and some may be shocking. Whether you are causally interested in these animals or have spent decades studying them, *What We Get Wrong About Crocodilians* will present information rarely discussed and enlighten all. *General Biology, Archosauria, Chelonia* Ulrich Joger, 2024-08-05 With more than 10,000 known species, recent reptiles (excluding birds) are the most speciose tetrapod class. Their diversity is high and many of them are frequently used as model organisms in phylogeographic and ecological studies. On the other hand, unique aspects of their biology are still being studied and important contributions to their understanding have just been issued. These aspects include the evolution of viviparity and of venom glands, metabolic regulation in poikilotherms, their ecophysiological tolerance and neurobiological and sensorial capacities such as infrared imaging and chemosensitivity. Genetic and developmental phenomena such as parthenogenesis and temperature-dependent sex determination are also special to reptiles. They are generally important for understanding evolutionary processes in vertebrates. The latest results of worldwide research on dinosaurs and other fossil reptiles, crocodiles and turtles conclude this first volume of Reptilia in the Handbook of Zoology. Conservation Genetics of New World Crocodilians Rodrigo Barban Zucoloto, Patricia Susana

Amavet,Luciano Martins Verdade,Izeni Pires Farias,2020-11-09 This book aims to be a comprehensive review of the literature on the conservation genetics of the New World crocodilians from the biological and demographical aspects of the living species to the application of molecular techniques for conservation purposes It covers the current status of the molecular genetics applied to phylogenetics phylogeography diversity kinship and mating system and hybridization as well its implications for decision making with regards to the conservation of these species at academic and governmental levels This book can be used as a guide for graduate and undergraduate students to understand how conservation genetics techniques are carried out and how they can help preserve not only crocodilians but also other living species *Mader's Reptile and Amphibian Medicine and Surgery- E-Book* Stephen J. Divers,Scott J. Stahl,2018-11-30 Selected for Doody s Core Titles 2024 in Veterinary Medicine Known as the bible of herpetological medicine and surgery Mader s Reptile and Amphibian Medicine and Surgery 3rd Edition edited by Stephen Divers and Scott Stahl provides a complete veterinary reference for reptiles and amphibians including specific sections on practice management and development taxonomy anatomy physiology behavior stress and welfare captive husbandry and management including nutrition heating and lighting infectious diseases and laboratory sciences clinical techniques and procedures sedation anesthesia and analgesia diagnostic imaging endoscopy medicine surgery therapy differential diagnoses by clinical signs specific disease condition summaries population health and public health and legal topics Well organized and concise this new edition covers just about everything related to reptiles and amphibians by utilizing an international array of contributing authors that were selected based on their recognized specialization and expertise bringing a truly global perspective to this essential text Biochemistry of Non-Shivering Thermogenesis in Vertebrates Naresh Chandra Bal,Punyadhara Pani,2025-03-28 This comprehensive reference book covers non shivering thermogenesis metabolic rates and associated diseases It emphasizes the phylogenetic relations of vertebrate non shivering thermogenesis NST and its evolutionary significance The book describes how the incidence of metabolic syndromes has reached epidemic levels worldwide due to dysregulation in energy balance Chapters include the evolution and regulatory mechanisms of NSTs It covers the role of NST in birds and wild animals and muscle adaptation during hibernation The book is meant for researchers and students of biochemistry molecular medicine and physiology It is also useful to physicians and health care professionals Key Features Provides in depth insights on topics related to metabolic rate regulation and thermogenesis Covers the evolution of tachymetabolism and endothermy among vertebrates Analyzes the evolutionary perspectives of non shivering thermogenesis in different organisms Discusses the evolution of brown adipose tissue and non shivering thermogenesis in mammals Provides graphs flowcharts and descriptive figures for easy understanding of concepts Infectious Diseases and Pathology of Reptiles Elliott R. Jacobson,Michael M. Garner,2020-09-03 Infectious Diseases and Pathology of Reptiles Second Edition provides definitive information on every aspect of the anatomy pathophysiology and differential diagnosis of infectious diseases affecting reptiles It features stunning

high quality color photos of normal anatomy and histology as well as gross light and electron microscopic images of infectious diseases of reptiles Editor Elliott Jacobson draws on his own photography collection and his wealth of experience spanning over 40 years in the research of infectious diseases and veterinary care of reptiles Already a comprehensive reference a new volume covering noninfectious diseases of reptiles has now been added to create a two volume set Diseases and Pathology of Reptiles Beginning with a thorough review of the biology anatomy and histology of reptiles Volume 1 covers all major systems and provides the most complete single source for color images of reptile histology hematology and cytology Volume 1 addresses the mechanism of reptile immunology and the response to pathogens and explains how immunological response is key to differential diagnosis It provides an overview of electron microscopy complete with electron micrographs of reptile pathogens and introduces the necessity of molecular methods for diagnosis Finally this volume devotes several chapters to the viral bacterial fungal and parasitic diseases known to reptiles and methods for isolating these pathogens With up to the minute data an array of sharp and high quality images and a panel of expert contributors this new edition of Infectious Diseases and Pathology of Reptiles is the definitive resource for veterinary pathologists zoo or wildlife veterinarians and the increasing number of private practice veterinarians seeing reptiles kept as exotic pets It is also ideal reading for veterinary students specializing in exotics candidates for ACZM accreditation and private breeders and hobbyists

Ruling Reptiles Holly Noelle Woodward Ballard, James O. Farlow, 2023-09-05 Modern crocodylians crocodiles alligators caiman Central and South America and gharials India have evolved over 250 million years from a fully terrestrial bipedal ancestor Along with birds crocodylians are the only living members of Archosauria the group including nonavian dinosaurs Ruling Reptiles features contributions on a broad range of topics surrounding crocodylian evolution and biology including osteology osteohistology developmental biology myology odontology functional morphology allometry body size estimation taphonomy parasitology ecology thermophysiology and ichnology It demonstrates how the wide variety of these studies can also provide crucial insights into dinosaurian biology and evolution Featuring the latest findings and interpretations Ruling Reptiles Crocodylian Biology and Archosaur Paleobiology is an essential resource for zoologists biologists and paleontologists

The Secret Social Lives of Reptiles J. Sean Doody, Vladimir Dinets, Gordon M. Burghardt, 2021-06-01 Covering diverse species from garter snakes to Komodo dragons this book delves into the evolutionary origins and fascinating details of the mysterious social lives of reptiles Reptiles have been too often dismissed as dull animals with tiny brains and simple asocial lives In reality reptiles engage in a remarkable diversity of complex social behavior They can live in families communicate with one another while still in the egg and hunt feed migrate court mate nest and hatch in groups In *The Secret Social Lives of Reptiles* J Sean Doody Vladimir Dinets and Gordon M Burghardt three of the world's leading experts on reptiles bring together a wave of new research with a synthesis of classic studies to produce the only authoritative look at the social behaviors of the most provocative animals on the planet The book covers turtles lizards snakes crocodilians and the

enigmatic tuatara Enhanced with dozens of images it takes readers through a myriad of social interactions tendencies and intimacies ranging from fierce territorial battles to delicate paternal care and from promiscuous pairings to monogamous partnerships This unique text explains why reptiles have been neglected as subjects of social behavior studies provides numerous examples across all major reptilian groups that overturn the false paradigm of solitary reptiles explores the sensory genetic physiological life history and other factors underlying social behavior in reptiles presents the case that evolutionary experiments found among reptiles offer unparalleled opportunities for understanding how and why social behavior evolves in animals and identifies new and developing areas of research helping to reshape our view of reptiles Revealing the secrets of reptilian social relationships through original quantitative research field studies laboratory experiments and careful analysis of the literature The Secret Social Lives of Reptiles elevates these fascinating animals to key players in the science of behavioral ecology Diseases and Pathology of Reptiles Elliott Jacobson, Michael Garner, 2021-08-29 This two volume set represents a second edition of the original Infectious Diseases and Pathology of Reptiles alongside a new book that covers noninfectious diseases of reptiles Together these meet the need for an entirely comprehensive authoritative single source reference The volumes feature color photos of normal anatomy and histology as well as gross light and electron microscopic images of infectious and noninfectious diseases of reptiles The most detailed and highly illustrated reference on the market this two volume set includes definitive information on every aspect of the anatomy pathophysiology and differential diagnosis of infectious and noninfectious diseases affecting reptiles

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