

William C. Hamlett Editor

# Reproductive Biology of South American Vertebrates



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# Reproductive Biology Of South American Vertebrates

**Ronald M. Nowak**



## **Reproductive Biology Of South American Vertebrates:**

**Reproductive Biology of South American Vertebrates** William C. Hamlett, 2012-12-06 South America is one of the few areas of the world that includes vast areas of as yet undisturbed natural habitats. These areas are home to as many as half the world's species of plants and animals. Many of the animals inhabiting these areas are of direct and immediate economic importance while others are of unknown potential value. With economic development of these areas there is a coincident disruption of natural habitats that have a direct impact on the reproductive capabilities of the affected species. Reproduction is central to the survival of all species and regardless of the environmental stresses imposed on them, scientific attention must be focused on reproductive biology as a way to deal with these pressures. It is vitally important to gather as much research data as possible on the reproductive biology of the species on this continent in order to provide governmental agencies and scientists with the most accurate information on which to base decisions regarding development. This volume is intended to draw attention to these pressing matters by gathering a wide representation of scientists actively engaged in reproduction research relating to South American vertebrates. It is intended that this volume will serve as a resource for individuals and organizations interested in reproductive biology and species survival. An additional benefit is that economically important species as well as potentially important ones such as sharks will be discussed. Reproductive Biology of South American Vertebrates William C. Hamlett, 1992-05-14 South America is one of the few areas of the world that includes vast areas of as yet undisturbed natural habitats. These areas are home to as many as half the world's species of plants and animals. Many of the animals inhabiting these areas are of direct and immediate economic importance while others are of unknown potential value. With economic development of these areas there is a coincident disruption of natural habitats that have a direct impact on the reproductive capabilities of the affected species. Reproduction is central to the survival of all species and regardless of the environmental stresses imposed on them, scientific attention must be focused on reproductive biology as a way to deal with these pressures. It is vitally important to gather as much research data as possible on the reproductive biology of the species on this continent in order to provide governmental agencies and scientists with the most accurate information on which to base decisions regarding development. This volume is intended to draw attention to these pressing matters by gathering a wide representation of scientists actively engaged in reproduction research relating to South American vertebrates. It is intended that this volume will serve as a resource for individuals and organizations interested in reproductive biology and species survival. An additional benefit is that economically important species as well as potentially important ones such as sharks will be discussed. Hormones and Reproduction of Vertebrates, Volume 2 David O. Norris, Kristin H. Lopez, 2024-07-17 Hormones and Reproduction of Vertebrates Volume 2 Amphibians is the second of five second edition volumes representing a comprehensive and integrated overview of hormones and reproduction in fishes, amphibians, reptiles, birds, and mammals. The book includes coverage of endocrinology, neuroendocrinology, physiology,

behavior and anatomy of amphibian reproduction It provides a broad treatment of the roles of pituitary thyroid adrenal and gonadal hormones in all aspects of reproduction as well as descriptions of major life history events New to this edition is a concluding assessment of the effect of environmental influences on amphibians Initial chapters in this book broadly examine sex determination reproductive neuroendocrinology stress and hormonal regulation as it relates to male and female reproductive structure and function Subsequent chapters examine hormones and reproduction of specific taxa including anuran amphibians urodeles and gymnophionids The book concludes with an examination of endocrine disruption of reproduction in amphibians

**Hormones and Reproduction of Vertebrates Volume 2 Amphibians** is designed to provide a readable coordinated description of reproductive basics in amphibians as well as an introduction to the latest trends in reproductive research and a presentation of our understanding of reproductive events gained over the past decade It may serve as a stand alone reference for researchers and practitioners in the field of herpetology or as one of five coordinated references aligned to provide topical treatment across vertebrate taxa for researchers practitioners and students focused on vertebrate endocrinology Covers endocrinology neuroendocrinology physiology behavior anatomy and development of amphibian reproduction Includes pituitary thyroid adrenal and gonadal hormones Focuses on anuran urodele and gymnophiona amphibians Provides new coverage on environmental disruption in amphibians

*Hormones and Reproduction of Vertebrates* David O. Norris, Kristin H. Lopez, 2010-11-25 This series of volumes represents a comprehensive and integrated treatment of reproduction in vertebrates from fishes of all sorts through mammals It is designed to provide a readable coordinated description of reproductive basics in each group of vertebrates as well as an introduction to the latest trends in reproductive research and our understanding of reproductive events Whereas each chapter and each volume is intended to stand alone as a review of that topic or vertebrate group respectively the volumes are prepared so as to provide a thorough topical treatment across the vertebrates Terminology has been standardized across the volumes to reduce confusion where multiple names exist in the literature and a comprehensive glossary of these terms and their alternative names is provided A complete essential and up to date reference for research scientists working on vertebrate hormones and reproduction and on animals as models in human reproductive research Covers the endocrinology neuroendocrinology physiology behaviour and anatomy of vertebrate reproduction Structured coverage of the major themes for all five vertebrate groups allows a consistent treatment for all Special chapters elaborate on features specific to individual vertebrate groups and to comparative aspects similarities and differences between them

**Hormones and Reproduction of Vertebrates, Volume 3** David O. Norris, Kristin H. Lopez, 2011-05-04 This series of volumes represents a comprehensive and integrated treatment of reproduction in vertebrates from fishes of all sorts through mammals It is designed to provide a readable coordinated description of reproductive basics in each group of vertebrates as well as an introduction to the latest trends in reproductive research and our understanding of reproductive events Whereas each chapter and each volume is intended to

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focused on vertebrate endocrinology Covers endocrinology neuroendocrinology physiology behavior and anatomy of mammalian reproduction Includes pituitary thyroid adrenal and gonadal hormones Focuses on rodents bats primates ungulates carnivores and marine mammals Provides new coverage on endocrine disrupting chemicals and climate change

**Walker's Marsupials of the World** Ronald M. Nowak, 2005-09-12 Authoritative and engaging this volume from the Walker's Mammals series focuses on marsupials pouched animals whose unusual method of reproduction between egg laying and placental birth places them in a unique category among mammals A comprehensive guide to the biology and distribution of marsupials this book includes common and scientific names size and physical traits habitat and ecology behavior and social interactions reproduction life span and conservation The text is coupled with illustrations from the collections of leading photographers and the world's greatest museums An introduction by marsupial expert Christopher R Dickman describes the evolution and current status of marsupials and reveals why they add so much intrigue to the natural world

**Hormones and Reproduction of Vertebrates, Volume 2** David O. Norris, Kristin H. Lopez, 2010-11-11 This series of volumes represents a comprehensive and integrated treatment of reproduction in vertebrates from fishes of all sorts through mammals It is designed to provide a readable coordinated description of reproductive basics in each group of vertebrates as well as an introduction to the latest trends in reproductive research and our understanding of reproductive events Whereas each chapter and each volume is intended to stand alone as a review of that topic or vertebrate group respectively the volumes are prepared so as to provide a thorough topical treatment across the vertebrates Terminology has been standardized across the volumes to reduce confusion where multiple names exist in the literature and a comprehensive glossary of these terms and their alternative names is provided A complete essential and up to date reference for research scientists working on vertebrate hormones and reproduction and on animals as models in human reproductive research Covers the endocrinology neuroendocrinology physiology behaviour and anatomy of vertebrate reproduction Structured coverage of the major themes for all five vertebrate groups allows a consistent treatment for all Special chapters elaborate on features specific to individual vertebrate groups and to comparative aspects similarities and differences between them

*Ecohydrology & Hydrobiology*, 2001 The international journal Ecohydrology target ecological principle necessity of enhancing ecosystem absorbing capacity and ecosystem services and management tool ecological engineering the use of ecosystem properties for regulation the interplay between hydrology and biota The journal encourages the submission of manuscripts which adopt an integrative approach to aquatic sciences explaining ecological and hydrological processes at a river basin scale or propose practical applications of this knowledge It will also consider papers in other hydrobiological fields Especially welcome are papers on regulatory mechanism within biocenosis and the resistance and resilience of freshwater and coastal zones ecosystems There is no page charge for published papers All submitted papers written exclusively in English should be original works unpublished and not under consideration for publication elsewhere All papers

are peer reviewed The following types of papers are considered for publication in E H original research papers invited or submitted review papers short communications

**Walker's Marine Mammals of the World** Ronald M.

Nowak,2003-05-28 Marine mammals are among the most fascinating and most watched of Earth s many animal species particularly for their many adaptations for life in and around the water and their unique methods of communication This comprehensive guide to the order is for experts and enthusiasts alike

**Conservation of Caribbean Island**

**Herpetofaunas Volume 2: Regional Accounts of the West Indies** Adrian Hailey,Byron Wilson,Julia Horrocks,2011-04-07

Most of the islands of the Caribbean have long histories of herpetological exploration and discovery and even longer histories of human mediated environmental degradation Collectively they constitute a major biodiversity hotspot a region rich in endemic species that are threatened with extinction This two volume series documents the existing status of herpetofaunas including sea turtles of the Caribbean and highlights conservation needs and efforts Previous contributions to West Indian herpetology have focused on taxonomy ecology and evolution particularly of lizards This series provides a unique and timely review of the status and conservation of all groups of amphibians and reptiles in the region This volume provides regional accounts of the islands of the West Indies biogeographic region

*The reproduction and development of sharks, skates, rays and ratfishes* Leo S. Demski,John P. Wourms,2013-06-29 This volume had its origin in a symposium on the Reproduction and Development of Cartilaginous Fishes that was held at the annual meetings of the American Elasmobranch Society and the American Society of Ichthyologists and Herpetologists in Charleston South Carolina in 1990 The cartilaginous fishes class Chondrichthyes are a large and diverse group of fishes that include approximately 900 to 1100 living species of sharks skates rays and ratfishes Throughout their history which dates back at least 400 million years they have been a successful major component of the marine ecosystem The chondrichthyan fishes occupy a pivotal position in comparative and evolutionary studies of vertebrate reproduction and development They are the oldest surviving group of jawed vertebrates and they possess both the adult vertebrate Bauplan and the vertebrate program of embryonic development The major features of the female reproductive system including its embryonic origin structure physiological function and biochemistry apparently were established early in vertebrate evolution and are fully developed in chondrichthyan fishes These features of the female reproductive system have been retained during the evolution of the other classes of vertebrates Much the same can be said for the male reproductive system Moreover viviparity placental nourishment of developing embryos and the hormonal regulation of these events made an initial appearance in this group The 22 articles presented in this volume bring together a wide variety of complementary research by investigators from seven countries allowing us to broaden the scope and implications of our studies while identifying opportunities for future research The appearance of a volume on the reproduction and development of cartilaginous fishes is quite opportune The continued existence of these fishes which survived the great extinction events of Earth s history is now threatened by overexploitation unless immediate steps for their

conservation are undertaken Knowledge of their reproduction and development not only is an end in itself but is of critical importance in devising successful conservation and resource management strategies

**Amphibian Ecology and Conservation** C. Kenneth Dodd, 2010 Describes the latest methodologies used to study the ecology of amphibians throughout the world Each of the 27 chapters explains a research approach or technique with emphasis on careful planning and the potential biases of techniques Statistical modelling landscape ecology and disease are covered for the first time in a techniques handbook

*Herpetology* Laurie J. Vitt, Janalee P. Caldwell, 2008-12-15 This third edition now fully revised and updated by two of Dr Zug's colleagues provides herpetology students and amateur reptile and amphibian keepers with the latest taxonomy and species developments from around the world Herpetology is a rapidly evolving field which has contributed to new discoveries in many conceptual areas of biology The authors build on this progress by updating all chapters with new literature graphics and discussions many of which have changed our thinking With a new emphasis placed on conservation issues Herpetology continues to broaden the global coverage from earlier editions recognizing the burgeoning reptile and amphibian research programs and the plight of many species in all countries and all biomes New information on the remarkable advances in behavioral physiological and phylo geographical data provide students with the current research they need to advance their education and better prepare their future in herpetology

**Mammals of the Neotropics, Volume 3** John F. Eisenberg, Kent H. Redford, 1989 This volume provides a survey and synthesis of current knowledge of the more than 650 species of land and marine mammals found in Ecuador Peru Bolivia and Brazil as well as information on the mammalian fossil record current biodiversity and biogeography of this region Chapters present up to date taxonomic information ecological and behavioral characteristics conservation status and distribution maps for most species Copyright Libri GmbH All rights reserved

American and Australasian Marsupials Nilton C. Cáceres, Christopher R. Dickman, 2023-06-30 This book focuses on the evolution biogeography systematics taxonomy and ecology of New World and Australasian marsupials greatly expanding the current knowledge base There are roughly 140 species of New World marsupials of which the opossum is the best known Thanks to recent research there is now an increasing amount of understanding about their evolution biogeography systematics ecology and conservation in the Americas especially in South America There are also some 270 marsupial species in the Australasian region many of which have been subject to research only in recent years Based on this information and the authors extensive research this book provides comprehensive insights into the world's marsupials It will appeal to academics and specialized researchers students of zoology paleontology evolutionary biology ecology physiology and conservation as well as interested non experts

Information and Technology Report, 1995 Wild Mammals of North America George A. Feldhamer, Bruce C. Thompson, Joseph A. Chapman, 2003-11-19

Table of contents *Sperm Competition and Sexual Selection* Tim R. Birkhead, Anders Pape Møller, 1998-08-12 Sperm Competition and Sexual Selection presents the intricate ways in which sperm compete to fertilize eggs and how this has



prompted reinterpretations of breeding behavior This book provides a theoretical framework for the study of sperm competition which is a central part of sexual selection It also discusses the roles of females and the relationships between paternal care in sperm competition The chapters focusing on taxonomic development are diverse and cover all the major animal groups both vertebrate and invertebrate and plants The final chapter provides an overview discussing the relationship between sperm competition and sexual selection in terms of both function and mechanism and how these translate into species fitness This book will be of prime interest to behaviorists ecologists and evolutionary biologists suggesting new avenues of research and new ways of approaching old problems The only up to date summary of a central and popular subject Well known editors and authors Provides a theoretical framework for the study of sperm competition Covers all major animal groups Includes a chapter on plants

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