

# Snakes--Ecology and Evolutionary Biology

Seigel, Richard A.

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# Snakes Ecology And Evolutionary Biology

**Roman Wölfel**



## Snakes Ecology And Evolutionary Biology:

**Snakes--ecology and Evolutionary Biology** Richard A. Seigel, Joseph T. Collins, Susan S. Novak, 1987 *Snakes* Richard A. Seigel, Joseph T. Collins, Susan S. Novak, 1987-01-01 Snakes Richard A. Seigel, Joseph T. Collins, 2001 This book fills the need for an up to date text reference in the growing field of snake ecology and evolutionary biology Here in one volume is an extensive review of the biology of these fascinating reptiles including topics such as zoogeography fossil history systematics foraging and reproduction With contributions from many leading herpetologists the work is divided into sections on Systematics and Morphology Methods and Techniques and Life History and Ecology Each section summarizes what is known about these major fields of snake biology This book serves the needs of those actively involved in research as well as the amateur naturalist and the beginning student pub desc *Snakes* Harry W. Greene, 1997 In clear engaging prose *Snakes* provides an up to date summary of every facet of the natural history of snakes their diversity evolution and conservation and at the same time makes a personal statement about why these animals are so compelling 215 color photos 3 tables **Biodiversity and Coarse Woody Debris in Southern Forests**, 1996 *How Snakes Work* Harvey B. Lillywhite, 2014-04 A heavily illustrated and complete account of the functional biology of snakes written for an audience of both scientists and a general readership The Origin and Early Evolutionary History of Snakes David J. Gower, Hussam Zaher, 2022-08-11 Snakes comprise nearly 4 000 extant species found on all major continents except Antarctica Morphologically and ecologically diverse they include burrowing arboreal and marine forms feeding on prey ranging from insects to large mammals Snakes are strikingly different from their closest lizard relatives and their origins and early diversification have long challenged and enthused evolutionary biologists The origin and early evolution of snakes is a broad interdisciplinary topic for which experts in palaeontology ecology physiology embryology phylogenetics and molecular biology have made important contributions The last 25 years has seen a surge of interest resulting partly from new fossil material but also from new techniques in molecular and systematic biology This volume summarises and discusses the state of our knowledge approaches data and ongoing debates It provides reviews syntheses new data and perspectives on a wide range of topics relevant to students and researchers in evolutionary biology neontology and palaeontology *Snakes in Question, Second Edition* George R. Zug, Carl H. Ernst, 2015-03-10 This new edition of *Snakes in Question* has been completely updated to take into account the most recent research available offering useful scientific information about snakes while dispelling many widely circulated myths and common fears Accompanied by 100 stunning color photographs and written in the popular question and answer format of Smithsonian's *In Question* series the book tells how snakes breathe hear smell and much more It covers not only the life cycle of snakes but also explores such phenomena as the rattlesnake's rattle the viper's hiss and the snake charmer's secrets It addresses common folktales about snakes do snakes milk cows and describes giant snakes both real and imaginary The authors also give expert advice on such subjects as distinguishing

venomous species from harmless look alikes and keeping snakes as pets

**The Evolution of Primary Sexual Characters in Animals** Janet Leonard, Alex Cordoba-Aguilar, 2010-07-19 Primary sexual traits those structures and processes directly involved in reproduction are some of the most diverse specialized and bizarre in the animal kingdom Moreover reproductive traits are often species specific suggesting that they evolved very rapidly This diversity long the province of taxonomists has recently attracted broader interest from evolutionary biologists especially those interested in sexual selection and the evolution of reproductive strategies Primary sexual characters were long assumed to be the product of natural selection exclusively A recent alternative suggests that sexual selection explains much of the diversity of primary sexual characters A third approach to the evolution of reproductive interactions after copulation or insemination has been to consider the process one of sexual conflict That is the reproductive processes of a species may reflect as does the mating system evolution acting on males and on females but in different directions In this volume authors explore a wide variety of primary sexual characters and selective pressures that have shaped them from natural selection for offspring survival to species isolating mechanisms sperm competition cryptic female choice and sexual arms races Exploring diverse reproductive adaptations from a theoretical and practical perspective The Evolution of Primary Sexual Characters will provide an unparalleled overview of sexual diversity in many taxa and an introduction to the issues in sexual selection that are changing our view of sexual processes

**Management of Amphibians, Reptiles, and Small Mammals in North America** Robert C. Szaro, Kieth E. Severson, David R. Patton, 1988 Historically the management of public lands from a multiple use perspective has led to a system that emphasizes those habitat components or faunal elements that primarily resulted in some sort of definable economic value While this often benefitted other species that were not even considered in the original prescriptions it also negatively impacted others We no longer can afford to take this simplistic view of ecosystem management We need to use a more holistic approach where ecological landscapes are considered as units and land management practices incorporate all elements into an integrated policy This includes examining the impacts of proposed land uses on amphibian reptile and small mammal populations

Anaconda Jesús A. Rivas, 2020-08-18 Anaconda tells the unexpected story of the world's largest snake Written by Jesús Rivas the undisputed expert on the biology of anacondas this is the first authoritative book on the biology of the green anaconda In this book Rivas describes his experiences over a quarter of a century exploring the secret life of these fantastic snakes including their diet movement patterns life and tribulations survival behavior and fascinating reproductive life More than just presenting facts about anacondas Rivas tells his story about studying them in the field Anaconda presents a comprehensive treatment of the natural history of the elusive green anacondas Drawing on twenty five years of research on this reptile in the wild and in captivity Rivas delves into the biology behavior demography reproductive habits and diet of the anaconda as well as issues relating to its conservation Rivas uses an ecological and evolutionary framework to present his research and supplements hard data with descriptions of his research methods including how he

tracked down the anaconda for observation and study in wild The resulting book is a complete and engaging examination of the world s largest snake The rich photographs provided paired with Rivas storytelling makes this the perfect book for anyone looking to learn or even learn more about this mysterious snake      **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      **Rattlesnakes** Laurence Monroe Klauber,1997 This virtual encyclopedia of the rattlesnake became

a natural history sensation when it was first published in 1956 The republication of the Second Edition with a new foreword by Harry W Greene will give amateur and professional herpetologists alike reason to rejoice Volume 1 covers taxonomy physiology and behavior Volume 2 concentrates on the rattlesnake s interactions with other organisms including humans Klauber s detailed and thorough study is still one of the most complete rattlesnake references ever published Greene s Foreword discusses the initial impact and continuing value of Klauber s work and recounts some of the advances in knowledge of rattlesnake biology during the past 25 years Also included is an update of rattlesnake taxonomy      **American Snakes** Sean P. Graham,2018-02-18 A wonderful book to read because it is replete with snake stories personal stories and stories about other herpetologists engaging Copeia Although many people fear them snakes are as much a part of America s rich natural heritage as redwoods bald eagles and grizzly bears Found from the vast Okefenokee Swamp to high alpine meadows from hardwood canopies to the burning bottom of the Grand Canyon these ultimate vertebrates are ecologically pivotal predators and quintessential survivors In this revelatory and engaging meditation on American snakes Sean P Graham a respected herpetologist and gifted writer explains the everyday lives of American snakes from their daily routines and seasonal cycles to their love lives hunting tactics and defensive repertoires debunks harmful myths about snakes and explores their relationship with humans highlights the contribution of snakes to the American wilderness tells tales of snake people important snake biologists with inspiring careers Neither a typical field guide nor an exhaustive reference American Snakes is instead a fascinating study of the suborder Serpentes Brimming with intriguing and unusual stories of hognose snakes that roll over and play dead blindsnakes with tiny vestigial lungs rainbow hued dipsadines and wave surfing sea snakes the text is interspersed with scores of gorgeous full color images of snakes from the scary to the sublime This proud

celebration of a diverse American wildlife group will make every reader no matter how skeptical into a genuine snake lover This thoroughly enjoyable book lets readers absorb the excitement of being a herpetologist who works with snakes while learning about the general and specific biology of the creatures Quarterly Review of Biology *Feeding in Vertebrates* Vincent Bels,Ian Q. Whishaw,2019-04-23 This book provides students and researchers with reviews of biological questions related to the evolution of feeding by vertebrates in aquatic and terrestrial environments Based on recent technical developments and novel conceptual approaches the book covers functional questions on trophic behavior in nearly all vertebrate groups including jawless fishes The book describes mechanisms and theories for understanding the relationships between feeding structure and feeding behavior Finally the book demonstrates the importance of adopting an integrative approach to the trophic system in order to understand evolutionary mechanisms across the biodiversity of vertebrates

**The Origin of Snakes** Michael Wayne Caldwell,2019-06-28 This book presents perspectives on the past and present state of the understanding of snake origins It reviews and critiques data and ideas from paleontology and neontology herpetology as well as ideas from morphological and molecular phylogenetics The author reviews the anatomy and morphology of extant snakes Methods are also critiqued including those empirical and theoretical methods employed to hypothesize ancestral ecologies for snakes The modern debate on squamate phylogeny and snake ingroup phylogeny using molecules and morphology is examined critically to provide insights on origins and evolution Key Features Important major evolutionary transformation in vertebrate evolution Continuing historical debate in vertebrate paleontology Of wide interest to a core audience of paleontologists herpetologists and morphologists Author acknowledged as prominent contributor to debate over snake origins Based on remarkable well preserved fossil specimens **Sensory Nervous System** Thomas Heinbockel,2018-07-18 The sensory nervous system is of critical importance in our daily lives and contributes to our personal well being and safety as well as communication with others However it is only when disease or injury impair its function that we fully appreciate the relevance of our sensory modalities During the past decades research of our senses has seen an ever growing interest in this exciting field of study This book provides the reader with an overview of the current state of the art of research of our senses and focuses on the most important evidence based developments in this area This book addresses both the physiology and pathophysiology of our sensory nervous system ranging from molecular cellular and systems to cognitive and behavioral topics Individual chapters focus on recent advances in specific areas of sensory systems in different model organisms and humans All chapters represent recent contributions to the rapidly developing field of sensory science

**Reptile Medicine and Surgery - E-Book** Stephen J. Divers,Douglas R. Mader,2005-12-13 This outstanding clinical reference provides valuable insights into solving clinical dilemmas formulating diagnoses developing therapeutic plans and verifying drug dosages for both reptiles and amphibians The information is outlined in an easy to use format for quick access that is essential for emergency and clinical situations Discusses veterinary medicine and surgery for both reptiles and

amphibians Features complete biology of snakes lizards turtles and crocodilians Provides step by step guidelines for performing special techniques and procedures such as anesthesia clinical pathology diagnostic imaging euthanasia and necropsy fracture management soft tissue surgery and therapeutics Covers specific diseases and conditions such as anorexia aural abscesses and digit abnormalities in a separate alphabetically organized section 53 expert authors contribute crucial information to the study of reptiles and offer their unique perspectives on particular areas of study The expansive appendix includes a reptile and amphibian formulary A new full color format features a wealth of vivid images and features that highlight important concepts and bring key procedures to life 29 new chapters covering diverse topics such as stress in captive reptiles emergency and critical care ultrasound endoscopy and working with venomous species Many new expert contributors that share valuable knowledge and insights from their experiences in practicing reptile medicine and surgery Unique coverage of cutting edge imaging techniques including CT and MRI      *America's Snake* Ted Levin, 2016-05-12 The acclaimed naturalist offers an in depth profile of the timber rattlesnake from its unique biological adaptations to its role in American history The ominous rattle of the timber rattlesnake is one of the most famous and terrifying sounds in nature Today they are found in thirty one states and many major cities Yet most Americans have never seen a timber rattler and only know them from movies or our frightened imaginations Ted Levin aims to change that with *America's Snake* This portrait of the timber rattler explores its significance in American frontier history and sheds light on the heroic efforts to protect the species against habitat loss climate change and the human tendency to kill what we fear Taking us from labs where the secrets of the snake's evolutionary adaptations are being unlocked to far flung habitats that are protected by dedicated herpetologists Levin paints a picture of a fascinating creature peaceable social long lived and despite our phobias not inclined to bite The timber rattler emerges here as an emblem of America but also of the struggles involved in protecting the natural world A wonderful mix of natural history travel writing and exemplary journalism *America's Snake* is loaded with remarkable characters none more so than the snake itself frightening fascinating and unforgettable A CHOICE Outstanding Academic Title Award winner      *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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where 18 20 gauge dg dark green wt white

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