

Deer Antlers

Regeneration, Function,
and Evolution



Richard J. Goss

Deer Antlers Regeneration Function And Evolution

Ernest A. Liner



Deer Antlers Regeneration Function And Evolution:

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Deer Antlers Richard J. Goss, 1983-06-11 This is a book about one of nature's most remarkable accomplishments. When deer grow antlers they are actually regenerating anatomically complex appendages something that no other mammal can do. The rate at which antlers elongate makes them the fastest growing structures in the animal kingdom. Profoundly affected by male hormones these secondary sex characters grow into massive tumors if the deer possessing them is castrated. These and other unique characteristics have made antlers the focus of extensive scientific research that addresses some provocative questions. From what tissues do antlers develop? By what morphogenetic mechanisms are they regenerated every year? What social functions prompted their initial evolution? How are they influenced by hormones and by the seasonal daylength fluctuations that regulate their annual replacement cycles? These and many other questions are considered in this comprehensive account of antlerology. Students of development, evolution, and behavior will find much to appreciate in this volume, as will ecologists, wildlife biologists, and zookeepers. It is a rich source of information for endocrinologists and physiologists interested in the relationship of antlers to the reproductive cycle. The orthopedists will find the study of antlers a valuable model of skeletal growth and bone disease, and the purported medicinal properties of velvet antlers will be a subject of interest to the pharmacologist. **Deer Antlers: Regeneration, Function, and Evolution** is as scientifically accurate as it is readable. It does not answer all questions about these unique appendages, but it is certain to arouse curiosity about the many unsolved problems

of how antlers grow die and are shed in the course of a single year

Handbook of Evolutionary Psychology Charles Crawford, Dennis L. Krebs, 2013-03-07 Evolutionary psychology is concerned with the adaptive problems early humans faced in ancestral human environments the nature of psychological mechanisms natural selection shaped to deal with those ancient problems and the ability of the resulting evolved psychological mechanisms to deal with the problems people face in the modern world Evolutionary psychology is currently advancing our understanding of altruism moral behavior family violence sexual aggression warfare aesthetics the nature of language and gender differences in mate choice and perception It is helping us understand the relationship between cognitive science developmental psychology behavior genetics personality and social psychology Foundations of Evolutionary Psychology provides an up to date review of the ideas issues and applications of contemporary evolutionary psychology It is suitable for senior undergraduates first year graduate students or professionals who wish to become conversant with the major issues currently shaping the emergence of this dynamic new field It will be interesting to psychologists cognitive scientists and anyone using new developments in the theory of evolution to gain new insights into human behavior

Bones and Cartilage Brian K. Hall, 2014-12-23 *Bones and Cartilage* provides the most in depth review and synthesis assembled on the topic across all vertebrates It examines the function development and evolution of bone and cartilage as tissues organs and skeletal systems It describes how bone and cartilage develop in embryos and are maintained in adults how bone is repaired when we break a leg or regenerates when a newt grows a new limb or a lizard a new tail The second edition of *Bones and Cartilage* includes the most recent knowledge of molecular cellular developmental and evolutionary processes which are integrated to outline a unified discipline of developmental and evolutionary skeletal biology Additionally coverage includes how the molecular and cellular aspects of bones and cartilage differ in different skeletal systems and across species along with the latest studies and hypotheses of relationships between skeletal cells and the most recent information on coupling between osteocytes and osteoclasts All chapters have been revised and updated to include the latest research Offers complete coverage of every aspect of bone and cartilage with updated references and extensive illustrations Integrates development and evolution of the skeleton as well a synthesis of differentiation growth and patterning Treats all levels from molecular to clinical embryos to evolution and covers all vertebrates as well as invertebrate cartilages Includes new chapters on evolutionary skeletal biology that highlight normal variation and variability and variation outside the norm neomorphs atavisms Updates hypotheses on the origination of cartilage using new phylogenetic cellular and genetic data Covers stem cells in embryos and adults including mesenchymal stem cells and their use in genetic engineering of cartilage and the concept of the stem cell niche

The Differences Between the Sexes R. V. Short, Evan Balaban, 1994-08-04 In most animals from bees to bison house flies to humans it is possible to see at a glance whether an individual is male or female How and why have these differences in appearance and behaviour developed and what are the nature and extent of the differences between men and women This book reviews the

latest molecular genetic hormonal anatomical and behavioural data in a wide range of species in a series of lively and highly readable articles from the world's leading experts in this field. Such an overview has never before been attempted. It will have a wide appeal especially to undergraduates and graduates in the biological and medical sciences and will help to bridge the gap between those who study genes and molecules in the laboratory and those who study the behaviour of animals in the wild.

Encyclopedia of Reproduction, 2018-06-29. Encyclopedia of Reproduction Second Edition Six Volume Set. comprehensively reviews biology and abnormalities also covering the most common diseases in humans such as prostate and breast cancer as well as normal developmental biology including embryogenesis gestation birth and puberty. Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers from advanced undergraduate students to research professionals. Chapters also explore the latest advances in cloning stem cells endocrinology clinical reproductive medicine and genomics. As reproductive health is a fundamental component of an individual's overall health status and a central determinant of quality of life, this book provides the most extensive and authoritative reference within the field. Provides a one stop shop for information on reproduction that is not available elsewhere. Includes extensive coverage of the full range of topics from basic to clinical considerations including evolutionary advances in molecular cellular developmental and clinical sciences. Includes multimedia and interactive teaching tools such as downloadable PowerPoint slides video content and interactive elements such as the Virtual Microscope.

Principles of Regenerative Biology Bruce M. Carlson, 2011-10-10. With the explosion of knowledge from molecular biology and the burgeoning interest in generating or regenerating tissues or organs through various bioengineering or stem cell approaches, many scientists and students have shown a renewed interest in the phenomenon of regeneration. Because relatively few have had the luxury of being able to approach the phenomenon of regeneration from a broad biological perspective, Dr. Carlson has produced a book that outlines the fundamental principles of regeneration biology. Subject matters focus principally on regeneration in vertebrate systems but also invertebrate regeneration. In order to manipulate regenerative processes, it is important to understand the underlying principles of regeneration. *Principles of Regenerative Biology* is the key introductory reference for all developmental biologists geneticists and tissue and stem cell researchers. Creates a general understanding of one of the most fascinating and complex phenomena in biology. Discusses the ability and diversity of regeneration in various organisms. Explains the history and origins of cells in regenerating systems. Includes information on stem cells and its important role in regeneration.

Skeletal Biomineralization: Patterns, Processes and Evolutionary Trends J.G. Carter, 1990-12-31. This reference work offers a complete review and synthesis of existing data as well as recently published research on the patterns processes and evolutionary trends of biomineralization throughout the animal kingdom.

The American Naturalist, 2007. [Evolution of Tertiary Mammals of North America: Volume 1, Terrestrial Carnivores, Ungulates, and Ungulate Like Mammals](#) Christine M. Janis, Kathleen M. Scott, Louis L. Jacobs, 1998-05-28. This book is

designed as a source and reference for people interested in the history and fossil record of North American tertiary mammals Each chapter covers a different family or order and includes information on anatomical features systematics the distribution of the genera and species at different fossil localities and a discussion of their paleobiology Many of these groups have never been covered in this fashion before **New Directions in Tissue Repair and Regeneration** Royal Society (Great Britain). Discussion Meeting,2004 Biomimetic Approaches in Engineering Practice Stanislav Kolisnychenko,2018-06-18 Aggregated Book **Advances in Bionic Engineering** Lu Quan Ren,Hao Wang,Zhen Dong Dai,2013-11-21 Selected peer reviewed papers from the 4th International Conference of Bionic Engineering ICBE 13 August 13 16 2013 Nanjing China *Discover* ,1990-07 *Elk* Erwin A. Bauer,1995 A majestic symbol of the great outdoors elk are widely admired nationwide They inhabit some of the most rugged and beautiful areas of North America lending spectacular backdrops to the award winning photography that illustrates this volume Like no other book before Elk offers a complete introduction to the world of the North American elk From habits to habitats Erwin Bauer provides extensive coverage including the elk s ancestors and evolution range diet behavior and instincts physical characteristics predators and conservation issues The Bauers capture elk in every season and in many environments from Yellowstone National Park to the Canadian wilderness They chronicle the creation of such organizations as the Rocky Mountain Elk Foundation and the National Elk Refuge and present readers with more than 100 gorgeous color photos historical black and white images and a range map Elk is the source for complete details on this regal wild creature Biology of the Reptilia Ernest A. Liner,1969 Reproduction, nutrition, développement ,1988 **Genetic and Ecological Diversity** L.M. Cook,1991-04-30 Intended as an introduction to population genetics this book concentrates on animals rather than plants and encompass patterns of genetic variability and genetic change *Magill's Encyclopedia of Science : Animal Life: Estivation-learning* Carl W. Hoagstrom,2002 Covers various aspects of zoology in four volumes including the behavior class evolution and physiology of both wild and domestic animals *The Otolaryngologic Clinics of North America* ,1984

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