

# Functional Avian Endocrinology

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# Avian Endocrinology

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## **Avian Endocrinology:**

**Avian Endocrinology** Alistair Dawson, C. M. Chaturvedi, 2001 This work provides a review of all aspects relating to hormones in birds both wild and domestic Topics include behavioural endocrinology roles of testosterone control of song production circadian rhythmicity and photoperiodic control of seasonal cycles synthesis within the brain of hormones controlling behaviour and how it is regulated and different aspects of reproduction from gonadal differentiation and gonadal function through control of egg size to the roles of and control of appetite and osmoregulation **Vertebrate**

**Endocrinology** David O. Norris, 2006-11-27 One of the only books to discuss all vertebrates the fourth edition of Vertebrate Endocrinology has been completely reorganized and updated to explore the intricate mechanisms that control human physiology and behavior as well as that of other vertebrate animals Perfect for students in endocrinology zoology biology and physiology it allows readers to gain both an understanding of the intricate relationships among all of the body systems and their regulation by hormones and other bioregulators but also a sense of their development through evolutionary time as well as the roles of hormones at different stages of an animal's life cycle Chapters have been reorganized to more closely follow traditional classroom presentation and extensive suggested readings are included at the end of each chapter allowing the reader to obtain further information as well as connect concepts to the literature on which the book is based For the first time this edition features four color illustrations Provides a complete overview of the endocrine system of vertebrates by first emphasizing the mammalian system as the basis of most terminology and understanding of endocrine mechanisms and then applies that to non mammals Introduces the reader to suitable concepts and explanation of jargon so that the reader will be able to delve directly into the primary literature on any endocrine related topic with a background that will aid in their interpretation of new information Revised and updated chapter on The Molecular Bases for Chemical Regulation that now includes more evolutionary data Includes information on endocrine disrupting chemicals and their implications on the health of wildlife and humans

**Recent Advances of Avian Endocrinology** G. Pethes, P. Péczely, P. Rudas, 2013-10-22 Advances in Physiological Sciences Volume 33 Recent Advances of Avian Endocrinology covers the proceedings of the satellite symposium on the Recent Advances in Avian Endocrinology that is held in conjunction with the 28th International Congress of Physiological Sciences The text contains 53 chapters in which the chapters except Chapter 1 are organized into five parts according to the issues they tackle The opening chapter discusses some effects of environmental pollutants on endocrine regulatory mechanisms The next eight chapters cover topics of neuroendocrinology while the next chapter discusses female and male reproduction Part 3 explains prostaglandins and Part 4 tackles thyroid function The final part discusses hormonal control of metabolism Veterinarians biologists ornithologists and other professionals interested in avian endocrinology will find this book a great reference material especially on the nature of the avian endocrine system **Fundamentals of**

**Comparative Vertebrate Endocrinology** I. Chester-Jones, P.M. Ingleton, J.G. Phillips, 2013-12-14 Endocrinology as a

discipline was a late arrival in the corpus of established subjects Its growth in recent years has been prodigious extending from morphology to molecular levels Most of the major endocrine glands were noted by the early anatomists although the adrenal glands were not described until 1563 by Bartholomaeus Eustachius 1520-1574 On the other hand elucidation of the function of these glands was extremely slow Key work by A A Berthold 1849 although overlooked at the time showed that comb atrophy in castrated fowl was prevented by testis transplantation The idea that glands produced substances reaching the bloodstream directly and not via excretory ducts stemmed from Claude Bernard who first used the term internal secretion in 1855 The clinical observations of Thomas Addison at Guy's Hospital published as a monograph in 1855 entitled *The Constitutional and Local Effects of Disease of the Suprarenal Capsules* were seminal However the stimulus of this early research did not bring immediate widespread further investigations Upon the discovery of secretin in 1902 Bayliss and Starling considered the term internal secretion to be clumsy and the term hormone was coined from *hormō* to excite or arouse and it was first used by Starling in his Croonian of 1905

**Neuroendocrinology** Horst-Werner Korf, Klaus-Henning Usadel, 2012-12-06 70 years after the discovery of secretory neurons internationally leading experts gathered to discuss the latest developments in neuropeptide research and endocrinology concentrating on the molecular cellular supracellular and systemic aspects A variety of neuropeptidergic systems are considered under comparative and evolutionary aspects

*Neurosteroids* Hubert Vaudry, Kazuyoshi Tsutsui, Thirty years ago the group of Baulieu and colleagues discovered that certain steroid hormones were present in higher amounts in the brain than in the plasma and also found that suppression of circulating steroids by adrenalectomy and castration did not affect the concentration of pregnenolone dehydroepiandrosterone and their sulfate esters in the rat brain These seminal observations led to the concept that the brain in very much the same way as the adrenal cortex testis ovary and placenta was capable of synthesizing steroids These brain born steroids called neurosteroids have been found to exert a vast array of biological activities A number of steroidogenic enzymes have now been identified in the central nervous system by immunohistochemistry and in situ hybridization and the neuronal and hormonal mechanisms regulating the biosynthesis of neurosteroids have been partially elucidated The aim of this Research Topic is to celebrate three decades of research on neurosteroids by gathering a bouquet of review papers and original articles from leading scientists in the flourishing field of neurosteroids

**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 Aspects of Avian Endocrinology C. G. Scanes, 1982 **Biology of Breeding Poultry** Paul M.

Hocking, 2009 This book reviews the biological science and background to breeding meat poultry specifically broiler turkey and duck These commercial birds have been changed by genetic selection to such an extent that they are substantially different from traditional breeds and laying hens Covering science management and husbandry systems this book is an essential reference for researchers and students in animal science as well as technical staff of breeding companies and poultry meat producers Part of the Poultry Science Symposium Series **Current Ornithology** Richard

Johnston, 2012-12-06 Volume 5 of this series continues its coverage of currently active research fields in ornithology Because an editor can never be a disinterested observer of his or her own editorial efforts any claim for superiority of this volume is not without conflict of interest Even so Volume 5 has certain merits that even a parent should acknowledge and I find the current chapters not merely timely and authoritative but compelling in their demand for a reader's attention Wolfgang and Roswitha Wiltschko provide a perceptive review of magnetic orientation in birds a piece dedicated to Fritz Merkel the pioneer in studies of magnetic orientation Sergei Kharitonov and Douglas Siegel Causey are concerned with the behavioral ecology of seabird coloniality emphasizing their field experiences in the USSR and the United States Ted Miller examines the application of studies of bird behavior to comparative biology pursuing the interface of behavior and evolutionary biology adumbrated by Konrad Lorenz in the 1930s Jeremy Raynor gives us a summary of the work over the past decade on bird flight which is not by turns as complex or as simple as we had formerly believed Carrol Henderson describes recent developments in nongame bird conservation based on his pioneering work in the State of Minnesota Alan Kamil discusses optimal experimental design for research in ornithology a field in which experimental work is frequently difficult to pursue

Leanness in Domestic Birds B. Leclercq, C. C. Whitehead, 2014-05-20 Leanness in Domestic Birds Genetic Metabolic and Hormonal Aspects is a proceeding of a symposium held in Tours France from 4 to 6 August 1987 Said symposium was concerned with genetic and metabolic factors associated with leanness of poultry and accounts of research in these areas The book is divided into six parts Part I covers studies that involve genetics in the selection of meat leanness Part II deals with the relationship of feed intake and metabolism to the leanness of poultry Part III discusses the lipid metabolism in birds

and its related factors and effects Part IV talks about the use of hormones such as insulin thyroid hormones and corticosteroids in the control of fatness in birds Part V covers studies involving amino acid metabolism and its relation to leanness in poultry and Part VI talks about the applications of the studies in commercial use The text is recommended for zoologists agriculturists and poultry farmers who would like to know more about the different factors that affect the leanness of domestic birds and its implications

**Physiological Adaptations for Breeding in Birds** Tony D. Williams, 2012-08-05  
Physiological Adaptations for Breeding in Birds is the most current and comprehensive account of research on avian reproduction It develops two unique themes the consideration of female avian reproductive physiology and ecology and an emphasis on individual variation in life history traits Tony Williams investigates the physiological metabolic energetic and hormonal mechanisms that underpin individual variation in the key female specific reproductive traits and the trade offs between these traits that determine variation in fitness The core of the book deals with the avian reproductive cycle from seasonal gonadal development through egg laying and incubation to chick rearing Reproduction is considered in the context of the annual cycle and through an individual's entire life history The book focuses on timing of breeding clutch size egg size and egg quality and parental care It also provides a primer on female reproductive physiology and considers trade offs and carryover effects between reproduction and other life history stages In each chapter Williams describes individual variation in the trait of interest and the evolutionary context for trait variation He argues that there is only a rudimentary and in some cases nonexistent understanding of the physiological mechanisms that underpin individual variation in the major reproductive life history traits and that research efforts should refocus on these key unresolved problems by incorporating detailed physiological studies into existing long term population studies generating a new synthesis of physiology ecology and evolutionary biology

**Reproductive Biology and Phylogeny of Birds, Part A** Barrie G M Jamieson, 2011-10-14  
Aspects of reproduction covered in this volume include classification and phylogeny as revealed by molecular biology anatomy of the male reproductive tract and organs anatomy and evolution of copulatory structures development and anatomy of the female reproductive tract endocrinology of reproduction ovarian dynamics and follicle development s Bird Ecology and Conservation William J. Sutherland, Ian Newton, Rhys Green, 2004-06-17 Outlining the main methods and techniques available to ornithologists this book brings together in one authoritative source contributions containing information on avian ecology and conservation

*The Design of Animal Communication* Marc D. Hauser, Mark Konishi, Masakazu Konishi, 1999  
Based on the approach laid out in the 1950s by Nobel laureate Nikolaas Tinbergen this book looks at animal communication from the four perspectives of mechanisms ontogeny function and phylogeny

**Poultry Production in Hot Climates**  
Nuhad Joseph Daghir, 2008 The poultry industry continues to expand in the warm regions of the world at a much faster rate than in temperate zones Not only can it be quickly and easily developed in these hot climates but poultry meat and eggs can serve as important sources of animal protein in those areas of the world that have protein insufficiency Fully revised and

updated this new edition describes how the detrimental effects of heat stress can be reduced through the manipulation of housing breeding nutrition and management and includes new contributions on controlled environment housing waterfowl and breeding fast growing broilers

*The Endocrinology of Growth, Development, and Metabolism in Vertebrates* Martin Schreibman, Colin G. Scanes, Peter K.T. Pang, 2012-12-02

The Endocrinology of Growth Development and Metabolism in Vertebrates provides an overview of vertebrate endocrinology This book aims to strengthen the bridge between medical and comparative endocrinologists by addressing the benefits that they can derive from this association Organized into five parts encompassing 24 chapters this volume starts with a discussion on the structure and biological function of growth hormone GH and prolactin PRL family This book then explains the extrinsic genetic and humoral factors that influence animal growth particularly in poikilotherms This text also elaborates the environmental conditions that affect the growth of poikilotherms including food availability temperature and photoperiod Other chapters discuss how somatotropin affects the growth development in homeotherms such as livestock species The reader is also introduced to the metabolic actions of GH which can be described in terms of short lived insulin like effects Endocrinologists molecular endocrinologists biologists molecular biologists biochemists researchers and physicians will find this book extremely useful

**Photoperiodism** Randy J. Nelson, David L. Denlinger, David E. Somers, 2010-01-27

Life evolves in a cyclic environment and to be successful organisms must adapt not only to their spatial habitat but also to their temporal habitat How do plants and animals determine the time of year so they can anticipate seasonal changes in their habitats In most cases day length or photoperiod acts as the principal external cue for determining seasonal activity For organisms not living at the bottom of the ocean or deep in a cave day follows night and the length of the day changes predictably throughout the year These changes in photoperiod provide the most accurate signal for predicting upcoming seasonal conditions Measuring day length allows plants and animals to anticipate and adapt to seasonal changes in their environments in order to optimally time key developmental events including seasonal growth and flowering of plants annual bouts of reproduction dormancy and migration in insects and the collapse and regrowth of the reproductive system that drives breeding seasons in mammals and birds Although research on photoperiodic time measurement originally integrated work on plants and animals recent work has focused more narrowly and separately on plants invertebrates or vertebrates As the fields have become more specialized there has been less interaction across the broader field of photoperiodism As a result researchers in each area often needlessly repeat both theoretical and experimental work For example understanding that there are genetically distinct morphs among species that depending on latitude respond to different critical photoperiods was discovered separately in plants invertebrates and vertebrates over the course of 20 years However over the past decade intense work on daily and seasonal rhythms in fruit flies mustard plants and hamsters and mice has led to remarkable progress in understanding the phenomenology as well as the molecular and genetic mechanisms underlying circadian rhythms and clocks This book was developed to further this type

of cooperation among scientists from all related disciplines It brings together leading researchers working on photoperiodic timing of seasonal adaptations in plants invertebrates and vertebrates Each of its three sections begins with an introduction by the section editor and at the end of the book the section editors present a synthesis of common themes in photoperiodism as well as discuss similarities and differences in approaches to the study of photoperiodism and future directions for research on photoperiodic time measurement

**Hormones and Animal Social Behavior** Elizabeth Adkins-Regan, 2005-08-07 This book is a graduate level guide to the intersection between animal social behaviour and behavioural endocrinology The fascinating connections between steroids peptides and social behaviour are explored through an integrative and comparative approach combining various methods

**Hormones and Reproduction of Vertebrates, Volume 4** David O. Norris, Kristin H. Lopez, 2024-08-05 Hormones and Reproduction of Vertebrates Volume 4 Birds is the fourth 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 reptilian 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 birds 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 behaviors including courtship mating parental care and migration The book concludes with an examination of endocrine disruption of reproduction in birds

**Hormones and Reproduction of Vertebrates Volume 4 Birds** is designed to provide a readable coordinated description of reproductive basics in birds 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 ornithology 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 and anatomy of avian reproduction Includes pituitary thyroid adrenal and gonadal hormones Focuses on specific behaviors including courtship mating parental care and migration Provides new coverage on environmental influences on birds

## **Avian Endocrinology** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has been evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Avian Endocrinology**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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anciennement son nom scientifique était elaphe guttata cependant cette vieille appellation n est plus utilisée aujourd hui son  
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