



Mammalian Olfaction, Reproductive Processes, and Behavior

Edited by
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Mammalian Olfaction Reproductive Processes And Behavior

F. H. Bronson



Mammalian Olfaction Reproductive Processes And Behavior:

Mammalian Olfaction, Reproductive Processes, and Behavior Richard Doty, 2012-12-02 Mammalian Olfaction Reproductive Processes and Behavior presents the conceptual methodological and empirical advances in the study of the complex interactions between nasal chemoreception sexual behavior and endocrine function in mammals It focuses on the orders Artiodactyla Perissodactyla Carnivora Rodentia and Primates The book describes techniques for producing anosmia in laboratory animals and the usefulness of the popular pheromone concept in describing chemosensory influences on mammalian behavior and endocrinology It also reviews studies examining reproductive endocrine olfactory interactions in humans Moreover the book discusses the anatomy physiology and development of the olfactory and vomeronasal systems This book is invaluable to anatomists endocrinologists mammalogists physiologists psychologists and zoologists not only as a source book but as a textbook on chemosensation as well *Pheromones and Reproduction in Mammals* John Vandenberg, 2012-12-02 Pheromones and Reproduction in Mammals reviews current research findings on the role of pheromones in mammalian reproduction Drawing on both quantitative laboratory studies and selected observational field studies the book explores how animals actively deploy scent to facilitate sexual interactions and the functions of those scent signals during these interactions Organized into two sections encompassing nine chapters this volume begins with an overview of chemical signals and how they influence reproductive behavior in a variety of mammalian species It then discusses the nature of chemical signals and olfactory perception the role of chemical communication in mother young interactions and in the reproduction of primates how pheromones regulate puberty and the ovarian cycle and pregnancy blocking by pheromones The reader is also introduced to hormonal responses to primer pheromones sensory physiology of pheromone communication and the role of pheromones in the reproduction of domestic animals such as cattle swine sheep and goats Biologists and students of biology will find this book extremely informative *Knobil and Neill's Physiology of Reproduction*, 2005-12-12 The 3rd edition the first new one in ten years includes coverage of molecular levels of detail arising from the last decade's explosion of information at this level of organismic organization There are 5 new Associate Editors and about 2/3 of the chapters have new authors Chapters prepared by return authors are extensively revised Several new chapters have been added on the topic of pregnancy reflecting the vigorous investigation of this topic during the last decade The information covered includes both human and experimental animals basic principles are sought and information at the organismic and molecular levels are presented The leading comprehensive work on the physiology of reproduction Edited and authored by the world's leading scientists in the field Is a synthesis of the molecular cellular and organismic levels of organization Bibliographies of chapters are extensive and cover all the relevant literature *Pheromones*, 2010-10-22 First published in 1943 Vitamins and Hormones is the longest running serial published by Academic Press The Editorial Board now reflects expertise in the field of hormone action vitamin action X ray crystal structure physiology and

enzyme mechanisms Under the capable and qualified editorial leadership of Dr Gerald Litwack Vitamins and Hormones continues to publish cutting edge reviews of interest to endocrinologists biochemists nutritionists pharmacologists cell biologists and molecular biologists Others interested in the structure and function of biologically active molecules like hormones and vitamins will as always turn to this series for comprehensive reviews by leading contributors to this and related disciplines This volume focuses on insulin and IGFs Longest running series published by Academic Press

Contributions by leading international authorities **Ontogeny of Olfaction** Raimund Apfelbach, Winrich

Breipohl, 2012-12-06 The impacts of specifically experienced external and internal environments upon phylogenetically established pathways of ontogenetic development seem to be responsible for the intra species variation of organisms Therefore normal function as well as disorders of sensory systems can often be better understood by considering the principles of ontogenetic maturation and the time schedule of environmental influences during that period Sensory organs and systems have long been considered to be hereditarily determined for their analysis of the environment However it is becoming more and more clear that their specificity depends also upon the sequence and nature of environmental impacts during highly sensitive periods of postnatal life being most effective The present book using an interdisciplinary approach has brought together various descriptions of developmental processes for one of the phylogenetically oldest sensory analytical circuits the olfactory system Although investigations of a wide range of vertebrates are included from marsupials to man the main attention was given to rodents the most frequently used experimental animal in this field of research Authors have been asked for reviews and original considerations on the rationales of developmental principles in the olfactory system and wherever appropriate to highlight its uniqueness or similarities with other parts of the nervous system Authors were also asked to consider future needs of research in their fields to describe their own approaches in this context and to outline general horizons of neurodevelopmental research Mammalogy Terry A. Vaughan, James M.

Ryan, Nicholas J. Czaplewski, 2013-12-11 Mammalogy is the study of mammals from the diverse biological viewpoints of structure function evolutionary history behavior ecology classification and economics Thoroughly updated the Sixth Edition of Mammalogy explains and clarifies the subject as a unified whole The text begins by defining mammals and summarizing their origins It moves on to discuss the orders and families of mammals with comprehensive coverage on the fossil history current distribution morphological characteristics and basic behavior and ecology of each family of mammals The third part of the text progresses to discuss special topics such as mammalian echolocation physiology behavior ecology and zoogeography The text concludes with two additional chapters previously available online that cover mammalian domestication and mammalian disease and zoonoses **The Hamster** H.I. Siegel, 2012-12-06 viii The final section consists

of a chapter on development by Thomas Schoenfeld and Christiana Leonard and three chapters devoted to functions of individuals These include biological rhythms by Lawrence Morin energy balance by Katarina Borer and the visual and

somatosensory systems by Barbara Finlay and Claire Berian I am extremely delighted and proud to have played a role in this work and I wish to thank each contributor Plenum Press especially Kirk Jensen Jay Rosenblatt and the Rutgers University Research Council In addition I extend my thanks and my love to my family Marilyn Matt Paul Scott and my mother and father who taught me to appreciate animals Harold I Siegel Newark New Jersey Contents I Origin 0 the Hamster Chapter 1 History of the Capture and Domestication of the Syrian Golden Hamster *Mesocricetus auratus* Waterhouse MICHAEL R MURPHY 1 Introduction 3 2 The Early Years Discovery and Description 4 3 On the Road to Jerusalem Capture and Breeding 7 4 The Invasion of America Dissemination and Proliferation 13 5 New Genes on the Line A Reconnaissance Expedition to Aleppo 17 6 Conclusion 18 References 19 II Reproductive Endocrinology Chapter 2 The Estrous Cycle ROBERT D LISK 1 Introduction 23 2 Sexual Maturation The First Estrous Cycle 24 2 1 The Ovary 26 2 2 The Pituitary 29 2 3 The Brain 31 3 Follicle Maturation and Ovulation 33 3 1 Time of Ovulation 33 3 2 Ovarian Steroids and Ovulation 35

Handbook of Olfaction and Gustation Richard L. Doty, 2015-05-22 The largest collection of basic clinical and applied knowledge on the chemical senses ever compiled in one volume the third edition of *Handbook of Olfaction and Gustation* encompass recent developments in all fields of chemosensory science particularly the most recent advances in neurobiology neuroscience molecular biology and modern functional imaging techniques Divided into five main sections the text covers the senses of smell and taste as well as sensory integration industrial applications and other chemosensory systems This is essential reading for clinicians and academic researchers interested in basic and applied chemosensory perception

Reproduction Norman T. Adler, Donald Pfaff, Robert W. Goy, 2012-12-06 *Knobil and Neill's Physiology of Reproduction* Ernst Knobil, Jimmy D. Neill, 2006 The 3rd edition the first new one in ten years includes coverage of molecular levels of detail arising from the last decade's explosion of information at this level of organismic organization There are 5 new Associate Editors and about 2/3 of the chapters have new authors Chapters prepared by return authors are extensively revised Several new chapters have been added on the topic of pregnancy reflecting the vigorous investigation of this topic during the last decade The information covered includes both human and experimental animals basic principles are sought and information at the organismic and molecular levels are presented The leading comprehensive work on the physiology of reproduction Edited and authored by the world's leading scientists in the field Is a synthesis of the molecular cellular and organismic levels of organization Bibliographies of chapters are extensive and cover all the relevant literature

Behavioral Endocrinology Jill B. Becker, 2002 The second edition of a popular introduction to the field of behavioral endocrinology

Hormones and Aggressive Behavior Bruce B. Svare, 2013-03-07 This volume is an overview of research examining the relationship between hormones and aggressive behavior The last 15 years have witnessed a tremendous growth of knowledge in this area yet reviews written by specialists are virtually nonexistent This work is an attempt to provide a comprehensive and cohesive synthesis of this literature Chapters 1-7 provide an analysis of hormonal influences on the major forms of aggressive behavior including intermale

interfemale shock induced maternal territorial and predatory aggression The focus of Chapters 8-12 is an examination of the mechanisms through which hormones might act to produce changes in agonistic responding Genetic developmental neural and biochemical influences are considered It is well known that environment social context and experience modulate the effects of hormones on behavior Thus Chapters 13-15 are designed to review the literature concerning hormone pheromone interactions hormonal responses to competition and the influence of social context on the endocrine system and aggressive behavior Frequently the principles advanced by behavioral endocrinologists are based on research in one species the rodent To provide a more comparative perspective and to examine specifically the generality of those principles generated for rodents Chapters 16-22 examine hormone aggression relationships in a variety of species including fish birds amphibians reptiles infrahuman primates humans ungulates and insects This volume should be useful to both beginning and advanced researchers in animal behavior behavioral endocrinology physiological psychology neuroendocrinology zoology physiology and psychiatry

Chemical Signals D. Muller-Schwarze, 2012-12-06 Research on chemical communication in animals is in a very active and exciting phase more species are studied data are accumulating concepts are changing and practical application seems feasible While most of the work on chemical ecology and chemical signals deals with insects vertebrate communication provides a formidable challenge and progress has been slow Joint efforts and frequent direct contacts of ecologists behaviorists psychologists physiologists histologists and chemists are required Such an interdisciplinary exchange of information took place on the occasion of the Symposium on Chemical Signals in Vertebrates and Aquatic Animals in Syracuse New York from May 31 to June 2 1979 More than one hundred investigators from seven countries participated and the papers presented comprise this volume Since the first Symposium on Vertebrate Chemical Signals at Saratoga Springs in 1976 considerable progress has been made with field studies the physiology of the vomeronasal organ and its role in reproductive behavior The behavioral functions and chemical nature of priming pheromones are better understood Efforts to isolate and identify mammalian pheromones are gaining ground and the bioassays are becoming more sophisticated In addition to formal presentations one evening of the Symposium was devoted to round table discussions of particular topics The selected themes indicate the growing points of chemical communication research priming pheromones vomeronasal organ bioassay and practical applications

Parental Care in Mammals David J. Gubernick, 2013-11-11 The editors of this volume have honored me by their invitation to write its Foreword an invitation extended because of my editing a book on the maternal behavior of mammals in 1963 Much as I would like to think that I had opened a new area of study and so played some part in the appearance of this fine new collection of chapters the facts are quite otherwise That in 1963 I could assemble the efforts of many distinguished investigators shows that the topic had already engaged their attention and had for some years past But even then the topic had origins extending much farther into the past to mention only Wiesner and Sheard's book *Maternal Behavior in the Rat* of 1933 Nevertheless in 1963 it seemed to me that the study of maternal care in

mammals had lagged behind the study of other kinds of social behavior The present volume does much to establish parental care of the young as a topic central to an understanding of the relation between ontogeny and phylogeny to the development of the young to the social organization of the species and to its preservation It may now be seen not only as interesting but as a most significant pattern of behavior among mammals The Perception of Odors Trygg Engen, 2012-12-02 The Perception of Odors presents concisely and clearly some of the important aspects in the study of olfaction such as perception human pheromones and odor pollution The book consists of 11 detailed chapters Chapters 1 and 2 serve as the introduction as it outlines the basic principles historical development and the anatomy and physiology of olfaction A chapter on Psychophysics is included wherein it covers the history of the measurement of odors and developments in the psychophysics of smell The following chapters deal mostly with areas of research such as odor masking deodorization adaptation odor mixture and memory Chapter 9 tackles the relationship of smell particularly the perception of odor to other senses The last two chapters discuss the possible future areas of research and problems in odor perception This book is a valuable reference to students and researchers studying sensation and perception *Handbook of Natural Pesticides: Methods* N. Bhushan

Mandava, 2018-04-19 This handbook series includes several naturally occurring chemicals that exhibit biological activity These chemicals are derived from plants insects and several microorganisms Volume I of this series covers the theory and practice of the strategies for pest control and methods for detection Moreover it presents extensive tables that provide the information you need to select the most appropriate bioassay for a particular plant growth regulator or hormone In addition to the chapters on bioassays Volume I provides a solid introduction to the theory and practice of natural pesticide use including in depth discussions of integrated management systems for weed and pest control the state of the art use of computers in pest management and allelochemicals as natural protection Guidelines on toxicological testing and EPA regulation of natural pesticides are also detailed **Social Behaviour in Fluctuating Populations** Andrew

Cockburn, 1987-12-31 This book forges a synthesis between the discipline of behavioural ecology and what is known of the social behaviour and population dynamics of cyclic populations of vertebrates with particular discussion of the cyclic voles and lemmings Areas of uncertainty and those which show promise are identified and tests of competing hypotheses are suggested Finally the relevance of social dynamics to population growth and decline are examined and a hypothesis on the role of aggressiveness in expanding populations is presented **Reproduction in New World Primates** J.P.

Hearn, 2012-12-06 The New World primates are becoming widely used in scientific and medical work in fields from anthropology to zoology behaviour to urology They have unique attributes for studies in cancer infectious diseases genetics virology and reproduction However it is only now that their reproductive physiology is being clarified in any depth and this book is a first synthesis of that knowledge The nine authors involved in this project have presented an up to date account of the major New World species used in biological and medical science In addition to their distribution and conservation in the

wild essential biological data from laboratory studies are presented on reproductive cycles gestation length seasonal breeding puberty and other factors The major applications of these species in research are explored Whenever possible research workers should steer away from using endangered species in their studies The New World monkeys used in research in any numbers are still fairly common in the wild yet their greatest advantages are in their small size and high fecundity This makes possible the establishment of self sustaining captive breeding colonies at a fraction of the time and cost necessary for the more conventional Old World laboratory primates Consequently the drain on wild stocks need not be extensive as only breeding nuclei should be necessary

Infanticide Glenn Hausfater, Sarah Blaffer Hrdy, 2008-06-01

Recent field studies of a variety of mammalian species reveal a surprisingly high frequency of infanticide the killing of unweaned or otherwise maternally dependent offspring Similarly studies of birds fish amphibians and invertebrates demonstrate egg and larval mortality in these species a phenomenon directly analogous to infanticide in mammals In this collection Hausfater and Hrdy draw together work on animal and human infanticide and place these studies in a broad evolutionary and comparative perspective Infanticide presents the theoretical background and taxonomic distribution of infanticide infanticide in nonhuman primates infanticide in rodents and infanticide in humans It examines closely sex allocation and sex ratio theory surveys the phylogeny of mammalian interbirth intervals and reviews data on sources of egg and larval mortality in a variety of invertebrate and lower vertebrate species Dealing with infanticide in nonhuman primates two chapters critically examine data on infanticide in langurs and its broader theoretical implications By reviewing sources of infant mortality in populations of small mammals and new laboratory analyses of the causes and consequences of infanticide this work explores such issues as the ontogeny of infanticide proximate cues of infants and females which elicit infanticidal behavior in males the genetical basis of infanticide and the hormonal determinants Hausfater and Sarah Blaffer Hrdy through their selection of materials for this book evaluate the frequency causes and function of infanticide Historical ethnographic and recent data on infanticide are surveyed Infanticide summarizes current research on the evolutionary origins and proximate causation of infanticide in animals and man As such it will be indispensable reading for anthropologists and behavioral biologists as well as ecologists psychologists demographers and epidemiologists Glenn Hausfater was professor at the division of biological sciences at the University of Missouri Columbia He is the author of Guidebook for the Long Term Monitoring of Amboseli Baboons and their Habitat Dominance and reproduction in Baboons and Early Vegetation of the Illinois Valley Sarah Blaffer Hrdy is professor emerita of anthropology at the University of California Davis She is the author of The Woman that Never Evolved The Langurs of Abu and The Black Man of Zinacantan

Mammalian

Reproductive Biology F. H. Bronson, 1989 A unique interdisciplinary overview of the way mammals reproduce this volume synthesizes research done by laboratory physiologists behaviorists population ecologists and animal breeders F H Bronson has drawn together the disparate literature in these areas to provide students and researchers with a comprehensive and

biologically integrated approach to the study of mammalian reproduction. Each chapter presents a wealth of issues and questions summarizing the current consensus on interpretations as well as viable alternatives under debate. The book is principally concerned with how environmental factors regulate reproduction. Bronson proposes that a mammal's reproductive performance routinely reflects simultaneous regulation by several environmental factors that interact in fascinatingly complex ways. Environment is defined broadly and the chapters give equal weight to ecological and physiological factors when considering how variables such as food availability, ambient temperature, photoperiod, and social cues interact to regulate a mammal's reproduction. Particular attention is given to seasonal breeding and a taxonomically arranged chapter underscores the importance of comparative and evolutionary biology to an understanding of mammalian reproduction. *Mammalian Reproductive Biology* is a powerful argument for the value and importance of interdisciplinary approaches to research. Its almost 1,500 references constitute the most comprehensive bibliography to date on this topic. Bronson also gives detailed consideration to promising areas for future research. Well organized, carefully planned, and clearly written, this book will become standard reading for scientists concerned with any aspect of mammalian biology.

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Mammalian Olfaction Reproductive Processes And Behavior Introduction

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