



Mammalian Olfaction, Reproductive Processes, and Behavior

Edited by
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Mammalian Olfaction Reproductive Processes And Behavior

James R. Coleman



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 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

Biological Rhythms Jurgen Aschoff, 2013-03-09 Interest in biological rhythms has been traced back more than 2500 years to Archilochus the Greek poet who in one of his fragments suggests i VWO KE o olos pv J tos txv pW7rOVS XH recognize what

rhythm governs man Aschoff 1974 Reference can also be made to the French student of medicine J J Virey who in his thesis of 1814 used for the first time the expression horloge vivante living clock to describe daily rhythms and to D C W Hufeland 1779 who called the 24 hour period the unit of our natural chronology However it was not until the 1930s that real progress was made in the analysis of biological rhythms and Erwin Bunning was encouraged to publish the first and still not outdated monograph in the field in 1958 Two years later in the middle of exciting discoveries we took a breather at the Cold Spring Harbor Symposium on Biological Clocks Its survey on rules considered valid at that time and Pittendrigh's anticipating view on the temporal organization of living systems made it a milestone on our way from a more formalistic description of biological rhythms to the understanding of their structural and physiological basis

Chemical Signals in Vertebrates 4 David Duvall, Dietland Müller-Schwarze, Robert M. Silverstein, 2012-12-06 This volume reviews recent developments in our understanding of chemical signaling in vertebrates After sections dealing with general principles and chemical aspects of vertebrate pheromones it follows a taxonomic approach progressing from fish to mammals The editors asked a diverse international group of leading investigators working on a wide array of vertebrate taxa and specific issues to consider their efforts from comparative evolutionary and ecological viewpoints The relative number of manuscripts in each part does not necessarily reflect current intensity of research since the editors invited speakers who together would provide a balanced and comprehensive overview while avoiding duplication Still the part on mammals is the longest Fourth in a series dating from 1977 this volume illuminates current trends and likely future developments in the field of chemical signaling in vertebrates Going back even farther the first chapter a personal account of the past quarter century by Dr Mykytowycz recalls the most important milestones such as symposia or the founding of societies and journals He also credits those investigators who stand out by their seminal studies

Chemical Signals in Vertebrates 3 Dietland Müller-Schwarze, Robert M. Silverstein, 2013-11-21 The first volume in this series appeared in 1977 the second in 1980 From these volumes and the present one some research trends in chemical communication can be perceived In the 1977 volume studies on 13 animal taxa were reported In the present volume the number is 25 This taxonomic diversification of research since the first volume of this series demonstrates the wide variety of ecological adaptations although no new general principles of chemical communication have emerged Further more divergences in chemical communication below the species level have become more apparent In general more sophisticated observations and techniques have led to greater awareness of the complexities in chemical communication As such awareness has also developed in the field of insect chemical communication there has been a corresponding increase in the identification of the chemical compounds involved However in the vertebrates no such correlation exists in the present volume conclusive chemical identifications of semiochemicals are remarkable by their paucity

Chemical Signals D. Müller-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

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

Reproductive Behavior and Gonadotropin Regulation in the Female Rat Julia Louise Vitale, 1979 *Handbook of Behavioral Neurobiology* Jürgen Aschoff, 1978 **Advances in the Study of Mammalian Behavior** John Frederick Eisenberg, Devra G. Kleiman, 1983 **Handbook of Human Growth and Developmental Biology**, 1988

Development of Sensory Systems in Mammals James R. Coleman, 1990-08-14 Reviews the state of knowledge on the

mechanisms of development of mammalian sensory systems and presents new findings on genetically controlled and environmentally contingent patterns of sensory system development Also reveals major principles deduced from studies of the developing visual auditory somatosensory and chemical sensory systems that are generalizable to other regions of the developing nervous system and provides insights on the comparative development of sensory system structure and function among mammals including humans

Chemical Neuroanatomy P. C. Emson,1983

The Ecology and Biology of Mammal-like Reptiles Nicholas Hotton,1986

The American Naturalist ,1987

Primates in Perspective Christina J. Campbell,2011 This volume contains forty seven original essays by seventy leading researchers offering an overview of all major areas of primatology Arranged in six sections the text begins with an introduction to primatology and a review of the natural history of the major taxonomic groups within the order Primates It goes on to cover methodologies and research design for both field and captive settings primate reproduction primate ecology and conservation and their roles in the daily lives of primates and such aspects of social behavior and intelligence as communication learning and cognition The volume ends with a concluding chapter by the editors that discuss the future of primatological research

Endocrine Control of Sexual Behavior Carlos Beyer,1979

American Scientist ,1942

Reproductive Physiology of Vertebrates Ari Van Tienhoven,1983 This book is a completely revised and updated second edition of a highly praised volume that was first published in 1968 Taking into account recent conceptual and technical advances the new edition examines and compares the reproductive mechanisms of different classes of vertebrates from cyclostomes to humans in a thorough and analytic manner Ari van Tienhoven is a uniquely qualified scientist with many years of research and teaching experience His fourteen chapters cover sex determination sexual development intersexes puberty anatomy of the reproductive system the testes the ovary reproductive cycles insemination and fertilization care of the embryo and fetus expulsion of the oocyte embryo or fetus reproduction and immunology reproductive behavior and environment and reproduction The author emphasizes the role of the H Y antigen in determining the sex of animals and gives particular attention to the evolutionary aspects of intersexes in fish He discusses the endocrinology of reproduction and he also deals with the role of light in controlling the timing of reproductive activity Many illustrations tables and references are included An important contribution to the fields of comparative endocrinology and reproduction this book will be a valuable text for advanced undergraduate and graduate students and an irreplaceable reference for zoologists in general and for specialists in reproductive physiology

The Top Books of the Year Mammalian Olfaction Reproductive Processes And Behavior The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Mammalian Olfaction Reproductive Processes And Behavior : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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