

SENSORY SYSTEMS OF PRIMATES

Edited by
Charles R. Noback

Sensory Systems Of Primates Advances In Primatology

Richard E. Passingham, Steven P. Wise



Sensory Systems Of Primates Advances In Primatology:

Sensory Systems of Primates Charles Noback, 2012-12-06 Primates are avid explorers that utilize a variety of sensory clues from the environment. The special senses of olfaction, audition, and particularly vision are thus of paramount significance in the evolution and adaptive radiation of the primates. It was with this in mind that this volume was planned to present some recent research advances. The chapter on olfactory communication among primates affords new insights concerning a sense which though primatologists have generally relegated it to a minor role is of considerable significance in the primates. The chapters on the auditory system are organized to stress three aspects: the receptive organ, the neural pathways, and the role of audition in primate communication. The visual system, the dominant special sense of primates, is analyzed with respect to two regions of the brain: namely, the organization of the superior colliculus and the visual cortex. Finally, the chapter on endocasts in the study of primate brain evolution will alert neurobiologists to the relevant information that can be unearthed from fossils embedded in the terrane. I wish to thank the publishers and especially Miss Phyllis Straw and Mr. Seymour Weingarten for their support, patience, guidance, and professional assistance. *Species, Species Concepts and Primate Evolution* William H. Kimbel, Lawrence B. Martin, 2013-12-18 A world of categories devoid of spirit waits for life to return. Saul Bellow. Humboldt's Gift. The stock in trade of communicating hypotheses about the historical path of evolution is a graphical representation called a phylogenetic tree. In most such graphics, pairs of branches diverge from other branches successively, marching across abstract time toward the present. To each branch is tied a tag with a name, a binomial symbol that functions as does the name given to an individual human being. On phylogenetic trees, the names symbolize species. What exactly do these names signify? What kind of information is communicated when we claim to have knowledge of the following types? *Tetonia mathewzi* was ancestral to *Pseudotetonia ambiguus*. The sample of fossils attributed to *Homo habilis* is too variable to contain only one species. Interbreeding populations of savanna baboons all belong to *Papio anubis*. *Hylobates lar* and *H. pileatus* interbreed in zones of geographic overlap. While there is nearly universal agreement that the notion of the species is fundamental to our understanding of how evolution works, there is a very wide range of opinion on the conceptual content and meaning of such particular statements regarding species. This is because, oddly enough, evolutionary biologists are quite far from agreement on what a species is, how it attains this status, and what role it plays in evolution over the long term. **How Primates Eat** Joanna E. Lambert, Margaret A. H. Bryer, Jessica M. Rothman, 2024-07-30 Exploring everything from nutrients to food acquisition and research methods, a comprehensive synthesis of the study of diet and feeding in nonhuman primates. What do we mean when we say that a diet is nutritious? Why can some animals get all the energy they need from eating leaves while others would perish on such a diet? Why don't mountain gorillas eat fruit all day as chimpanzees do? Answers to these questions about food and feeding are among the many tasty morsels that emerge from this authoritative book. Informed by the latest scientific tools and millions of hours of field and laboratory work on species across

the primate order and around the globe this volume is an exhaustive synthesis of our understanding of what why and how primates eat State of the art information presented at physiological behavioral ecological and evolutionary scales will serve as a road map for graduate students researchers and practitioners as they work toward a holistic understanding of life as a primate and the urgent conservation consequences of diet and food availability in a changing world **Multisensory**

Object Perception in the Primate Brain Marcus Johannes Naumer, Jochen Kaiser, 2010-07-03 It should come as no surprise to those interested in sensory processes that its research history is among the longest and richest of the many systematic efforts to understand how our bodies function The continuing obsession with sensory systems is as much a reaction of the fundamental need to understand how we experience the physical world as it is to understand how we become who we are based on those very experiences The senses function as both portal and teacher and their individual and collective properties have fascinated scientists and philosophers for millennia In this context the attention directed toward specifying their properties on a sense by sense basis that dominated sensory research in the 20th century seems a prelude to our current preoccupation with how they function in concert Nevertheless it was the concentrated effort on the operational principles of individual senses that provided the depth of understanding necessary to inform current efforts to reveal how they act cooperatively We know that the information provided by any individual sensory modality is not always veridical but is subject to a myriad of modality specific distortions Thus the brain's ability to compare across the senses and to integrate the information they provide is not only a way to examine the accuracy of any individual sensory channel but also a way to enhance the collective information they make available to the brain **Advanced Views in Primate Biology** A. B.

Chiarelli, R. S. Corruccini, 2012-12-06 *Folia Primatologica*, 1980 **Size and Scaling in Primate Biology** William J. Jungers, 2013-12-14 In very general terms scaling can be defined as the structural and functional consequences of differences in size or scale among organisms of more or less similar design Interest in certain aspects of body size and scaling in primate biology e.g. relative brain size dates to the turn of the century and scientific debate and dialogue on numerous aspects of this general subject have continued to be a primary concern of primatologists physical anthropologists and other vertebrate biologists up to the present Indeed the intensity and scope of such research on primates have grown enormously in the past decade or so Information continues to accumulate rapidly from many different sources and the task of synthesizing the available data and theories on any given topic is becoming increasingly formidable In addition to the formal exchange of new ideas and information among scientific experts in specific areas of scaling research two of the major goals of this volume are an assessment of our progress toward understanding various size related phenomena in primates and the identification of future prospects for continuing advances in this realm Although the subject matter and specific details of the issues considered in the 20 chapters that follow are very diversified all topics share the same fundamental and unifying biological theme body size variation in primates and its implications for behavior and ecology anatomy and physiology and

evolution **The Neurobiology of the Prefrontal Cortex** Richard E. Passingham, Steven P. Wise, 2012-07-12 The prefrontal cortex makes up almost a third of the human brain The Neurobiology of the Prefrontal Cortex presents a new theory about its fundamental function Written by two leading brain scientists it is an important contribution to our understanding of the evolution and functioning of the human brain **Primates and Their Relatives in Phylogenetic Perspective** Ross D.E. MacPhee, 2013-06-29 This unique volume investigates the relationships of primates at the ordinal and higher classificatory levels from a variety of interdisciplinary viewpoints Individual chapters examine the origin and evolution of gliding in early Cenozoic Dermoptera the ontogeny of the tympanic floor in Archontans the role of the neurosciences in primate evolutionary biology and many other subjects The work will be of particular interest to primatologists zoologists and systematists *The Primate Visual System* Jon H. Kaas, Christine E. Collins, 2003-07-28 The last 20 years of research have been marked by exceptional progress in understanding the organization and functions of the primate visual system This understanding has been based on the wide application of traditional and newly emerging methods for identifying the functionally significant subdivisions of the system their interconnections the *Nursery Care of Nonhuman Primates* G. C. Ruppenthal, 2013-03-09 The Infant Primate Research Laboratory at the University of Washington was conceived in 1970 as a small research Wlit primarily for support of two individual s interests in early develop ment of nonhuman primates Because of their research emphasis a modest nursery was required to support a small population of animals for specific experimental studies The laboratory experi enced rapid growth when others at the University became interested in the use of monkeys as models for early development and mental retardation in humans In 1972 the Wlit was formally established as a core facility of the Child Development and Mental Retardation Center and the Regional Primate Research Center This joint administrative and financial support allowed us to invest considerable effort in the development of normative data for rearing animals in our nursery as well as for identifying documenting and rearing subjects at high risk for neonatal death As part of that effort every attempt has been made to promote a multidisciplinary approach to ques tions associated with rearing nonhuman primates This volume includes much of the information thus gathered I feel that such an approach is essential to the promotion of scientific principles in rearing and has allowed the laboratory to contribute to prima tology *Sexual Selection in Primates* Peter M. Kappeler, Carel P. van Schaik, 2004-05-13 Sexual Selection in Primates provides an account of all aspects of sexual selection in primates combining theoretical insights comprehensive reviews of the primate literature and comparative perspectives from relevant work on other mammals birds and humans Topics include sex roles sexual dimorphism in weapons ornaments and armaments sex ratios sex differences in behaviour and development mate choice sexual conflict sex specific life history strategies sperm competition and infanticide The outcome of the evolutionary struggle between the sexes the flexibility of roles and the leverage of females are discussed and emphasised throughout Sexual Selection in Primates is aimed at graduates and researchers in primatology animal behaviour evolutionary biology and comparative psychology

New Interpretations of Ape and Human Ancestry Russell Ciochon,2012-12-06 **Monographic Series** Library of Congress,1979 *Comparative Vertebrate Neuroanatomy* Ann B. Butler,William Hodos,2005-08-19 *Comparative Vertebrate Neuroanatomy Evolution and Adaptation* Second Edition Ann B Butler and William Hodos The Second Edition of this landmark text presents a broad survey of comparative vertebrate neuroanatomy at the introductory level representing a unique contribution to the field of evolutionary neurobiology It has been extensively revised and updated with substantially improved figures and diagrams that are used generously throughout the text Through analysis of the variation in brain structure and function between major groups of vertebrates readers can gain insight into the evolutionary history of the nervous system The text is divided into three sections Introduction to evolution and variation including a survey of cell structure embryological development and anatomical organization of the central nervous system phylogeny and diversity of brain structures and an overview of various theories of brain evolution Systematic comprehensive survey of comparative neuroanatomy across all major groups of vertebrates Overview of vertebrate brain evolution which integrates the complete text highlights diversity and common themes broadens perspective by a comparison with brain structure and evolution of invertebrate brains and considers recent data and theories of the evolutionary origin of the brain in the earliest vertebrates including a recently proposed model of the origin of the brain in the earliest vertebrates that has received strong support from newly discovered fossil evidence Ample material drawn from the latest research has been integrated into the text and highlighted in special feature boxes including recent views on homology cranial nerve organization and evolution the relatively large and elaborate brains of birds in correlation with their complex cognitive abilities and the current debate on forebrain evolution across reptiles birds and mammals *Comparative Vertebrate Neuroanatomy* is geared to upper level undergraduate and graduate students in neuroanatomy but anyone interested in the anatomy of the nervous system and how it corresponds to the way that animals function in the world will find this text fascinating *Primate Neuroethology* Asif A. Ghazanfar,2012-08-16 This edited volume is the first of its kind to bridge the epistemological gap between primate ethologists and primate neurobiologists Leading experts in several fields review work ranging from primate foraging behavior to the neurophysiology of motor control from vocal communication to the functions of the auditory cortex

Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1975 **Digital Endocasts** Emiliano Bruner,Naomichi Ogiwara,Hiroki C. Tanabe,2017-12-28 This book is dedicated to a specific component of paleoneurology probably the most essential one endocasts A series of original papers collected here focuses on describing methods and techniques that are dedicated to reconstruct and study fossil endocasts through computed tools The book is particularly oriented toward hominid paleoneurology although it also includes chapters on different taxa to provide a more general view of current perspectives and problems in evolutionary neuroanatomy The first part of the book concerns techniques and tools to cast endocranial anatomy The second part deals with computed morphometrics and the third part is

devoted to comparative neurobiology Those who want to approach the field in general terms will find this book especially helpful as will those researchers working with endocranial anatomy and brain evolution The book will also be useful for researchers and graduate students in anthropology bioarchaeology medicine and related fields Evolution of the Human Genome I Naruya Saitou, 2018-02-08 This book reviews the human genome from an evolutionary perspective No such book has ever been published before although there are many books on human genomes There are two parts in this book Overview of the Human Genome Part I and The Human Genome Viewed through Genes Part II In Part I after a brief review of human evolution and the human genome by Naruya Saitou chapters on rubbish or junk DNA by Dan Graur GC content heterogeneity by Satoshi Oota protein coding and RNA coding genes by Tadashi Imanishi duplicated genes by Takashi Kitano recombinations by Montanucci and Bertranpetit and copy number variations including microsatellites by Naoko Takezaki are discussed Readers can obtain various new insights on the human genome from this part In Part II genes in X and Y chromosomes by Yoko Satta and others HLA genes by Timothy A Jinam opsin genes by Shoji Kawamura and Amanda D Melin genes related to phenotypic variations by Ryosuke Kimura transcription factors by Mahoko Takahashi and So Nakagawa diabetes related genes by Ituro Inoue disease genes in general by Ituro Inoue and Hirofumi Nakaoka and microbial genomes by Chaochun Wei are discussed The human genome sequences were determined in 2004 and after more than 10 years we are now beginning to understand the human genome from an evolutionary point of view This book furnishes readers with a good summary of current research in the field **Evolution of Nervous Systems** Georg F. Striedter, Theodore H. Bullock, Todd M. Preuss, John Rubenstein, Leah A. Krubitzer, 2016-11-23 Evolution of Nervous Systems Second Edition Four Volume Set is a unique major reference which offers the gold standard for those interested both in evolution and nervous systems All biology only makes sense when seen in the light of evolution and this is especially true for the nervous system All animals have nervous systems that mediate their behaviors many of them species specific yet these nervous systems all evolved from the simple nervous system of a common ancestor To understand these nervous systems we need to know how they vary and how this variation emerged in evolution In the first edition of this important reference work over 100 distinguished neuroscientists assembled the current state of the art knowledge on how nervous systems have evolved throughout the animal kingdom This second edition remains rich in detail and broad in scope outlining the changes in brain and nervous system organization that occurred from the first invertebrates and vertebrates to present day fishes reptiles birds mammals and especially primates including humans The book also includes wholly new content fully updating the chapters in the previous edition and offering brand new content on current developments in the field Each of the volumes has been carefully restructured to offer expanded coverage of non mammalian taxa mammals primates and the human nervous system The basic principles of brain evolution are discussed as are mechanisms of change The reader can select from chapters on highly specific topics or those that provide an overview of current thinking and approaches making this an indispensable work for

students and researchers alike Presents a broad range of topics ranging from genetic control of development in invertebrates to human cognition offering a one stop resource for the evolution of nervous systems throughout the animal kingdom Incorporates the expertise of over 100 outstanding investigators who provide their conclusions in the context of the latest experimental results Presents areas of disagreement and consensus views that provide a holistic view of the subjects under discussion

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