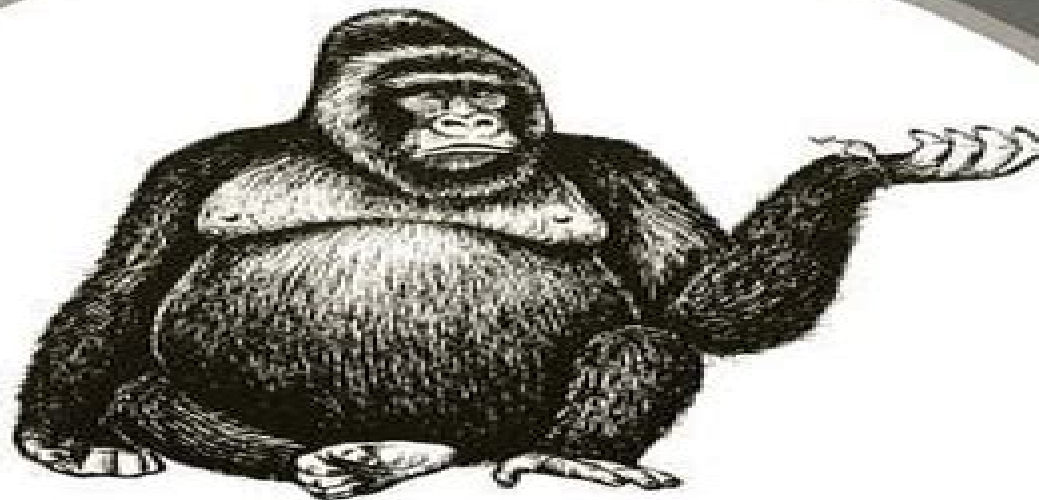


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Size and Scaling — in — Primate Biology



Edited by William L. Jungers

Size And Scaling In Primate Biology

William J. Jungers



Size And Scaling In Primate Biology:

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

Primate Craniofacial Function and Biology Chris Vinyard, Matthew J. Ravosa, Christine Wall, 2008-09-17 Primate Craniofacial Function and Biology is an integrative volume with broad coverage of current research on primate craniofacial biology and function Topic headings include the mammalian perspective on primate craniofacial form and function allometric and comparative morphological studies of primate heads in vivo research on primate mastication modeling of the primate masticatory apparatus primate dental form and function and palaeoanthropologic studies of primate skulls Additionally the volume includes introductory chapters discussing how primatologists study adaptations in primates and a discussion of in vivo approaches for studying primate performance At present there are no texts with a similar focus on primate craniofacial biology and no sources that approach this topic from such a wide range of research perspectives This breadth of research covered by leaders in their respective fields make this volume a unique and innovative contribution to biological anthropology

Species, Species Concepts and Primate Evolution William H. Kimbel, Lawrence B. Martin, 2013-12-18 A world of categories devmd 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 binominal 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

Reconstructing Behavior in the Primate Fossil Record J. Michael Plavcan, Richard F. Kay, William L. Jungers, Carel P. van Schaik, 2012-12-06 This volume brings together a series of papers that address the topic of reconstructing behavior in the primate fossil record The literature devoted to reconstructing behavior in extinct species is overwhelming and very diverse Sometimes it seems as though behavioral reconstruction is done as an afterthought in the discussion section of papers relegated to the status of informed speculation But recent years have seen an explosion in studies of adaptation functional anatomy comparative sociobiology and development Powerful new comparative methods are now available on the internet At the same time we face a rapidly growing fossil record that offers more and more information on the morphology and paleoenvironments of extinct species Consequently inferences of behavior in extinct species have become better grounded in comparative studies of living species and are becoming increasingly rigorous We offer here a series of papers that review broad issues related to reconstructing various aspects of behavior from very different types of evidence We hope that in so doing the reader will gain a perspective on the various types of evidence that can be brought to bear on reconstructing behavior the strengths and weaknesses of different approaches and perhaps new approaches to the topic We define behavior as broadly as we can including life history traits locomotion diet and social behavior giving the authors considerable freedom in choosing what exactly they wish to explore

Evolutionary History of the Robust Australopithecines Frederick E. Grine, 2017-09-29 In paleoanthropology the group of hominids known as the robust australopithecines has emerged as one of the most interesting Through them we have the opportunity to examine the origin natural history and ultimate extinction of not just a single species but of an entire branch in the hominid fossil record It is generally agreed that the human lineage can be traced back to this group of comparatively small brained large toothed creatures This volume focuses on the evolutionary history of these early hominids with state of the art contributions by leading international authorities in the field Although a case can be made for a robust lineage the functional and taxonomic implications of the morphological features are subject to vigorous disagreement An area of lively debate is the possible causal relationship between the presence of early *Homo* and the origin evolution and virtual extinction of robust australopithecines This volume summarizes what has been learned about the evolutionary history of the robust australopithecines in the 50 years since Robert Broom first encountered the visage of a new kind of ape man from Kromdraai New discoveries from Kromdraai to Lomekwi have served to keep us aware that the paleontological record for hominid evolution is hardly exhausted Because of such finds no single volume can hope to stand as

a summary on the robust australopithecines for very long but this classic volume comes close to achieving this goal The book sheds new light upon some old questions and also acts to provide new questions The answers to those questions bring us closer to a fuller understanding and appreciation of the origins evolution and ultimate demise of the robust australopithecines Since the robust australopithecines most likely stand as our closest relatives a better understanding of their origin history and demise serves to provide heightened appreciation of the course of human evolution itself This definitive volume addresses the questions and problems surrounding this important lineage

Primate Locomotion

Elizabeth Strasser, John Fleagle, Alfred L. Rosenberger, Henry McHenry, 2013-06-29 The study of primate locomotion is a unique discipline that by its nature is interdisciplinary drawing on and integrating research from ethology ecology comparative anatomy physiology biomechanics paleontology etc When combined and focused on particular problems this diversity of approaches permits unparalleled insight into critical aspects of our evolutionary past and into a major component of the behavioral repertoire of all animals Unfortunately because of the structure of academia integration of these different approaches is a rare phenomenon For instance papers on primate behavior tend to be published in separate specialist journals and read by subgroups of anthropologists and zoologists thus precluding critical syntheses In the spring of 1995 we overcame this compartmentalization by organizing a conference that brought together experts with many different perspectives on primate locomotion to address the current state of the field and to consider where we go from here The conference Primate Locomotion 1995 took place thirty years after the pioneering conference on the same topic that was convened by the late Warren G Kinzey at Davis in 1965

Adaptive Radiations of Neotropical Primates

Marilyn A. Norconk, Alfred L. Rosenberger, Paul A. Garber, 2011-06-28 This collection of 29 papers grew out of a symposium entitled Setting the Future Agenda for Neotropical Primates The symposium was held at the Department of Zoological Research National Zoological Park Washington D C on February 26 27 1994 and was sponsored by the Wenner Gren Foundation for Anthropological Research Smithsonian Institution and Friends of the National Zoo We put the symposium together with two objectives to honor Warren G Kinzey for his contributions to the growing field of platyrrhine studies and to provide researchers who work in the Neotropics with the opportunity to discuss recent developments to identify areas of research that require additional study and especially to help guide the next generation of researchers The symposium provided the opportunity to recognize Warren as a mentor and collaborator to the contribution of the study of platyrrhines Contributions to the book were expanded in order to provide a more comprehensive view of platyrrhine evolution and ecology to emphasize the interdisciplinary nature of many of these studies and to highlight the central role that New World monkeys play in advancing primatology If this volume were to require major revisions after just one more decade of research that would be a fitting testament to Warren's enthusiasm and his drive to continually update the field with new ideas and methods Tributes to Warren and a list of his publications have been published elsewhere Norconk 1994 1996 Rosenberger 1994 1995

Primate

Adaptation and Evolution John Fleagle, 1998-09-21 John Fleagle has improved on his 1988 text by reconceptualizing chapters and by bringing new findings in functional and evolutionary approaches to bear on his synthesis of comparative primate data. The Second Edition provides a foundation upon which students can develop an understanding of our primate heritage. It features up to date information gained through academic training, laboratory experience and field research. This beautifully illustrated volume provides a comprehensive introductory text explaining the many aspects of primate biology and human evolution. Key Features: Provides up to date information about many aspects of primate biology and evolution. Contains a completely new chapter on primate communities. Presents totally revised chapters on primate origins, early anthropoids and fossil platyrrhines. Includes an updated glossary, new illustrations and a revised Classification of Order Primates. Succeeds as the best introductory text on primate evolution because it synthesizes and allows access to primary literature. Wildlife Review, 1985.

Carnivoran Evolution Anjali Goswami, Anthony Friscia, 2010-07-29 Members of the mammalian clade Carnivora have invaded nearly every continent and ocean, evolving into bamboo eating pandas, clam eating walruses and of course flesh eating sabre toothed cats. With this ecological, morphological and taxonomic diversity and a fossil record spanning over sixty million years, Carnivora has proven to be a model clade for addressing questions of broad evolutionary significance. This volume brings together top international scientists with contributions that focus on current advances in our understanding of carnivoran relationships, ecomorphology and macroevolutionary patterns. Topics range from the palaeoecology of the earliest fossil carnivorans to the influences of competition and constraint on diversity and biogeographic distributions. Several studies address ecomorphological convergences among carnivorans and other mammals with morphometric and Finite Element analyses, while others consider how new molecular and palaeontological data have changed our understanding of carnivoran phylogeny. Combined, these studies also illustrate the diverse suite of approaches and questions in evolutionary biology and palaeontology. Evolution of Gibbons and Siamang Ulrich H. Reichard, Hirohisa Hirai, Claudia Barelli, 2016-08-19 This volume provides insight into gibbon diet and community ecology, the mating system and reproduction and conservation biology, all topics which represent areas of substantial progress in understanding socio-ecological flexibility and conservation needs of the hylobatid family. This work analyzes hylobatid evolution by synthesizing recent and ongoing studies of molecular phylogeny, morphology and cognition in a framework of gibbon and siamang evolution. With its clearly different perspective, this book is written to be read, referenced and added to the bookshelves of scientists, librarians and the interested public.

Perspectives in Ethology P.P.G. Bateson, Paul Patrick Gordon Bateson, P.H. Klopfer, 1989-01-31 Nine chapters on diverse topics that include an analysis of whether sociobiology has killed ethology or revitalized it, aims, limitations and the future of ethology and comparative ethology, the tyranny of anthropocentrism, psychoimmunology, gender differences in behavior, behavioral development.

Human Evolution Through Developmental Change Nancy Minugh-Purvis, Ken McNamara, 2002-01-11 This book reflects two major strands of research

in the study of human heterochrony the change in the timing and rate of development of individuals Epic & Opus — Paired Visions of Time Michael A. Susko, 2025-08-22 Epic Opus Paired Visions of Time Cosmos Bios Mythos This edition pairs the mythic trilogy Cosmos Bios Mythos The Saga of Beyond a New World with the research work The Unfolding of Time A Logarithmic Model for Astronomical Biological and Cultural Evolution In the epic Zoe and Tod step into a tunnel of light and journey through deep time from cosmic birth to the rise of life and finally into the human story guided by love tested by mythic forces and invited to reimagine their place in a living universe The opus offers the counterpoint a clear interdisciplinary model showing how major thresholds galaxies rocky planets life and symbolic culture emerge in rhythmic pulses when viewed on a logarithmic timescale Presented wholecloth and in dialogue story and study can be read in either order Together they invite readers to feel and think time at once a narrative odyssey matched with a framework that reveals the universe's layered rhythm of transformation **Howler Monkeys** Martín M. Kowalewski, Paul A. Garber, Liliana Cortés-Ortiz, Bernardo Urbani, Dionisios Youlatos, 2014-12-15 Howler monkeys genus *Alouatta* comprise 12 species of leaf eating New World monkeys that range from southern Mexico through northern Argentina This genus is the most widespread of any New World primate and can be found to inhabit a range of forest types from undisturbed rainforest to severely anthropogenically impacted forest fragments Although there have been many studies on individual species of howler monkeys this book is the first comprehensive volume that places information on howler behavior and biology within a theoretical framework of ecological and social adaptability This is the first of two companion volumes devoted to the genus *Alouatta* This volume Provides new and original empirical and theoretical research on howler monkeys Presents evolutionary and adaptive explanations for the ecological success of howler monkeys Examines howler behavior and ecology within a comparative framework These goals are achieved in a collection of chapters written by a distinguished group of scientists on the evolutionary history paleontology taxonomy genetics morphology physiology and anatomy of howlers The volume also contains chapters on howlers as vectors of infectious diseases ethnoprimateology and conservation **From Tools to Symbols** Francesco d'Errico, Lucinda Backwell, Bernard Malauzat, 2005-06-01 A number of researchers have tried to characterise the anatomy and behavioural systems of early hominid and early modern human populations in an attempt to understand how we became what we are Can archaeology palaeo anthropology and genetics tell us how and when human cultures developed the traits that make our societies different from those of our closest living relatives In which cases are these differences substantial and when do they simply reflect our definitions of culture species the image we have of their evolution or of ourselves From Tools to Symbols a collection of twenty seven selected papers from a South African French conference organised in honour of the well known palaeo anthropologist Phillip Tobias provides a multidisciplinary overview of this field of study It is based on collaborative research conducted in sub Saharan Africa by South African French American and German scholars in the last twenty years and represents an excellent synthesis of the palaeontological and

archaeological evidence of the last five million years of human evolution Evolutionary Cell Processes in Primates M. Kathleen Pitirri, Joan T. Richtsmeier, 2021-09-14 Many complex traits define the human condition including encephalization and bipedalism The specific molecular signals and cellular processes producing these traits are the result of dramatic evolutionary change At the same time conservation of many of these developmental programs underlie both structure and function Novel methodologies and techniques allow analysis of the collective behavior of cells cell shapes tissues and organs This volume demonstrates the essential role of cellular mechanisms in the evolutionary increase in the size and complexity of the primate brain In addition and concordant with encephalization this book documents changes in the muscles and bones associated with the appearance of bipedalism Genetic changes are the basis of these evolutionary changes but transformation of genetic information into phenotypic outcomes occurs at the level of the cell and this is the focus of the book The goal is to encourage others to adopt evolutionary cell biology as a novel and necessary approach to the genotype phenotype map of the diversification of primates human variation and human evolution The contributors to this book utilize advances in genetic analysis visualization of cells and tissues and the merging of evolutionary developmental biology with evolutionary cell biology to address questions central to understanding the human and primate evolution Key Features Explores mechanisms underlying trait distribution dispersal variation and evolution through the direct testing of hypotheses especially with respect to patterns of encephalization certain sensory modalities and growth and life history specializations Documents the advantages for anthropologists to work at the level of cells focusing on how genes provide instructions for cells to make structure and how environmental influences affect the behavior of cells Illustrates the role cell biology plays with respect to encephalization neocortical expansion variation in facial morphology locomotion and dexterity Describes novel methodologies and techniques allowing analysis of how the collective behavior of cells shapes tissues and organs Related Titles Ripamonti U ed Induction of Bone Formation in Primates The Transforming Growth Factor beta 3 ISBN 978 0 3673 7740 3 Gordon M S et al eds Animal Locomotion Physical Principles and Adaptations ISBN 978 0 3676 5795 6 Bianchi L Developmental Neurobiology ISBN 978 0 8153 4482 7 *Skeletal Anatomy of the Newborn Primate* Timothy D. Smith, Valerie B. DeLeon, Christopher J. Vinyard, Jesse W. Young, 2020-05-28 The first clearly illustrated comparative book on developmental primate skeletal anatomy focused on the highly informative newborn stage 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

Motherhood in Human and Nonhuman Primates: Biosocial Determinants C. R. Pryce, R. D. Martin, D.

Skuse, 1995-05-15 Within the disciplines of anthropology medicine psychology and zoology the primate mother infant relationship has been studied extensively in terms of either its evolution adaptive function causation disruption or consequences Between these disciplines however there has been only limited exchange of theory and evidence relating to the study of motherhood and this is true for human motherhood specifically and primate motherhood in general This situation needs rectifying because a clear and detailed understanding of the biosocial regulation of human motherhood is best achieved using a comparative and interdisciplinary approach

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