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Size and Scaling — in — Primate Biology



Edited by William L. Jungers

Size And Scaling In Primate Biology

William H. Durham



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, 2008-09-25 *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

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.

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.

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.

Patterns and Processes in the History of Life D.

Jablonski, D.M. Raup, 2012-12-06 Hypothesis testing is not a straightforward matter in the fossil record and here too interactions with biology can be extremely profitable. Quite simply predictions regarding long term consequences of processes observed in living organisms can be tested directly using paleontological data if those living organisms have an adequate fossil record thus avoiding the pitfalls of extrapolative approaches. We hope to see a burgeoning of this interactive effort in the coming years. Framing and testing of hypotheses in paleontological subjects inevitably raises the problem of inferring process from pattern and the consideration and elimination of a broad range of rival hypotheses is an essential procedure here. In a historical science such as paleontology the problem often arises that the events that are of most interest are unique in the history of life. For example replication of the metazoan radiation at the beginning of the Cambrian is not feasible. However decomposition of such problems into component hypotheses may at least in part alleviate this difficulty. For example hypotheses built upon the role of species packing might be tested by comparing evolutionary dynamics both morphological and taxonomic during another global diversification such as the biotic rebound from the end Permian extinction which removed perhaps 95% of the marine species see Valentine this volume. The subject of extinction and mass extinction in particular has become important in both paleobiology and biology. *Human Biology* Raymond Pearl, 1993. Includes section Recent literature useful in the study of human biology. **International Journal of Primatology**, 2006.

Primate Life History and Evolution C. Jean De Rousseau, 1990-08-20 These proceedings of a symposium held in Maja Mexico in October 1987 offer multidisciplinary investigations of ontogeny's role in primate evolution and the place of life history in evolutionary studies. This work presents a comprehensive view of life history's value in facilitating primate evolution research by giving equal emphasis to the two components of life history the processes in individual organisms and the structural consequences of those processes in higher levels of organization. **Essential Readings in Evolutionary Biology** Francisco J. Ayala, John C. Avise, 2014-03-15 Traces scholarly thought from the nineteenth century birth of evolutionary biology to the mapping of the human genome through forty eight essays arranged in chronological order each preceded by a one page essay that explains the significance of the chosen work. *Evolution of Social Behaviour Patterns in Primates and Man* Walter Garrison Runciman, John Maynard Smith, Robin Ian MacDonald Dunbar, 1996 The fourteen contributions testify to the increasing cooperation which is bringing together biologists primatologists archaeologists psychologists linguists and anthropologists who share a common interest in the study of social and cultural behaviour from an evolutionary perspective. The papers derived from a Royal Society British Academy meeting range in topic from cultural and social behaviour among non human primates through the interaction of cognitive development with social organization during the Upper Palaeolithic to behaviour including linguistic behaviour among modern humans. This volume reflects the important recent developments in such areas as behavioural ecology evolutionary psychology and the origin and function of language. **The American Naturalist**, 2005 **Primate Report**, 1993 Science John Michels, 1880 Since Jan 1901 the

official proceedings and most of the papers of the American Association for the Advancement of Science have been included in Science **Doğa**, 2005 *American Journal of Physical Anthropology* American association of physical anthropologists, 1999 *A Heterochronic Study of the Hominoid Foot* Katherine Ann Manley-Buser, 1991 **Ancestors, the Hard Evidence** Eric Delson, 1985 **Annual Review of Anthropology** William H. Durham, 2000 **South African Journal of Science**, 1996

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