

Functional Morphology of the Forelimb of Tupaiids (Mammalia, Scandentia) and Its Phylogenetic Implications

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ABSTRACT In this study, the forelimb of 12 species of tupaiids was analyzed functionally and compared to that of other archontan mammals. Several differences that relate to differential substrate use were found in the forelimb morphology of tupaiids. These differences included shape of the scapula, length and orientation of the coracoid process, size of the lesser tuberosity, shape of the capitulum, length of the olecranon process, and shape of the radial head and central fossa. The forelimb of the arboreal *Ptilocercus loeii*, the only ptilocercine, is better adapted for arboreal locomotion, while that of tupaiines is better adapted for terrestrial (or scansorial) locomotion. While the forelimb of the arboreal *Ptilocercus* appears to be habitually flexed and exhibits more mobility in its joints, a necessity for movement on uneven, discontinuous arboreal supports, all tupaiines are characterized by more extended forelimbs and less mobility in their joints. These restricted joints limit movements more to the parasagittal plane, which increases the efficiency of locomotion on a

more even and continuous surface like the ground. Even the most arboreal tupaiines remain similar to their terrestrial relatives in their forelimb morphology, which probably reflects the terrestrial ancestry of Tupaiinae (but not Tupaiidae). The forelimb of *Urogale everetti* is unique among tupaiines in that it exhibits adaptations for scratch-digging. Several features of the tupaiid forelimb reflect the arboreal ancestry of Tupaiidae and it is proposed that the ancestral tupaiid was arboreal like *Ptilocercus*. Also, compared to the forelimb character states of tupaiines, those of *Ptilocercus* are more similar to those of other archontans and it is proposed that the attributes of the forelimb of *Ptilocercus* are primitive for the Tupaiidae. Hence, *Ptilocercus* should be considered in any phylogenetic analysis that includes Scandentia. *J. Morphol.* 253: 10–42, 2002. © 2002 Wiley-Liss, Inc.

KEY WORDS: Tupaiids; archontans; forelimb; functional morphology

The postcranial morphology of tree shrews (Scandentia, Tupaiidae) is relatively poorly known and has not been studied from a functional morphological perspective. However, the forelimb myology of tupaiids has been well described by Le Gros Clark (1924, 1926) and George (1973, 1977). Endo et al. (1999) recently studied the functional morphology of one tupaiid species, *Dendrogale murina*, and made several conclusions about its forelimb morphology and myology. However, there are several problems with this study (see below).

Stafford and Thorington (1998) studied the carpus of several mammals, including tupaiids. Their study of carpal morphology went beyond an examination of carpal patterns, in that developmental data were incorporated into the analysis. Their work makes the wrist the one well-studied region of the tupaiid forelimb, and I will be able to contribute little beyond their conclusions. However, I will note when I concur with their assessment and when I disagree with it.

In this analysis, both Ptilocercinae (*Ptilocercus loeii*) and Tupaiinae (*Tupaia*, *Dendrogale*, and *Urogale*; also *Anathana*, which could not be included in this analysis due to lack of specimens) were repre-

sented, and both arboreal (*Ptilocercus* and *Tupaia minor*) and terrestrial (particularly *Urogale everetti* and *Tupaia tana*) tupaiids were examined. It should be pointed out, however, that arboreal and terrestrial differences in the tupaiid postcranium are often split down the subfamilial line (Sargis, 2001a) because *Ptilocercus*, on the one hand, is arboreal (Lim, 1967, 1969; Maul and Lim, 1971; Gould, 1978), and most tupaiines, with the exception of *T. minor* (Lim, 1969; D'Souza, 1974) and possibly *T. nicobarica*

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Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses

Léo Pomar



Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses:

Evolution of the Cercopithecoid Forelimb Daniel I. Axelrod, Russell L. Ciochon, 1992 **Mammalian Evolutionary Morphology** Eric J. Sargis, Marian Dagosto, 2008-05-21 This book celebrates the contributions of Dr Frederick S Szalay to the field of Mammalian Evolutionary Morphology Professor Szalay is a strong advocate for biologically and evolutionarily meaningful character analysis He has published about 200 articles six monographs and six books on this subject This book features subjects such as the evolution and adaptation of mammals and provides up to date articles on the evolutionary morphology of a wide range of mammalian groups Evolution of the Human Diet Peter S. Ungar, 2007 We are interested in the evolution of hominin diets for several reasons One is the fundamental concern over our present day eating habits and the consequences of our societal choices such as obesity prevalent in some cultures and starvation in others Another is that humans have learned to feed themselves in extremely varied environments and these adaptations which are fundamentally different from those of our closest biological relatives have to have had historical roots of varying depth The third and the reason why most paleoanthropologists are interested in this question is that a species trophic level and feeding adaptations can have a strong effect on body size locomotion life history strategies geographic range habitat choice and social behavior Diet is key to understanding the ecology and evolution of our distant ancestors and their kin the early hominins A study of the range of foods eaten by our progenitors underscores just how unhealthy many of our diets are today This volume brings together authorities from disparate fields to offer new insights into the diets of our ancestors Paleontologists archaeologists primatologists nutritionists and other researchers all contribute pieces to the puzzle This volume has at its core four main sections Reconstructed diets based on hominin fossils tooth size shape structure wear and chemistry mandibular biomechanics Archaeological evidence of subsistence stone tools and modified bones Models of early hominin diets based on the diets of living primates both human and non human paleoecology and energetics Nutritional analyses and their implications for evolutionary medicine New techniques for gleaning information from fossil teeth bones and stone tools new theories stemming from studies of paleoecology and new models coming from analogy with modern humans and other primates all contribute to our understanding When these approaches are brought together they offer an impressive glimpse into the lives of our distant ancestors The contributions in this volume explore the frontiers of our knowledge in each of these disciplines as they address the knowns the unknowns and the unknowables of the evolution of hominin diets **Old World Monkeys** Paul F. Whitehead, Clifford J. Jolly, 2000-05-04 Old World monkeys Cercopithecoidea are the most successful and diverse group of living non human primates in terms of the number of species behavioural repertoires and ecology They have much to teach us about the processes of evolution and the principles of ecology and are among our closest living relatives This volume presents a broad technical account of cercopithecoid biology including molecular behavioural and morphological

approaches to phylogeny population structure allometry fossil history functional morphology ecology cognitive capabilities social behaviour and conservation It will be the definitive reference on this group for professionals and graduate students in primatology animal behaviour paleontology morphology systematics and physical anthropology but will also be useful to senior undergraduates

The Miocene Purple Mountain Flora of Western Nevada Daniel I. Axelrod, 1995-01-01 In this study nine florules from the Chloropagus Formation near Fernley Nevada are dated at 14 7 13 4 million years The author finds that dominant mixed conifer forest and sclerophyll woodland species of the Sierra Nevada Klamath region replaced exotic deciduous hardwoods in the two lowest sites He concludes that this change reflects the loss of adequate summer rain as upwelling from a colder ocean resulted from spreading East Antarctic ice

University of California Publications in Geological Sciences, 1952

The Bug Creek Problem and the Cretaceous-Tertiary Transition at McGuire Creek, Montana Donald L. Lofgren, 1995-08-31 Bug Creek assemblages from Montana transitional in composition between typical Cretaceous and Paleocene vertebrate faunas are critical to K T extinction debates because they have been used to support both gradual and catastrophic K T extinction scenarios Geological and palynological data from McGuire Creek indicate that Bug Creek assemblages are Paleocene and restricted to channel fills entrenched into older sediments suggesting that the Cretaceous component of the assemblage was reworked Thus the author concludes Paleocene dinosaurs are an illusion and the K T survival rate of mammals is low because the presence of Cretaceous mammals in Bug Creek assemblages is also the result of reworking

American Journal of Physical Anthropology, 1995

Journal of Vertebrate Paleontology, 1995

Human Evolution Source Book Russell L. Ciochon, John G. Fleagle, 2016-12-05 For Junior Senior and Graduate courses in Human Evolution taught in anthropology and biology departments This book is the most comprehensive collection of cutting edge articles on human evolution Designed for use by students in anthropology paleontology and evolutionary biology this edited volume brings together the major ideas and publications on human evolution of the past three decades The book spans the entire scope of human evolution with particular emphasis on the fossil record including archaeological studies

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Paleontology and Geology of Laetoli: Human Evolution in Context Terry Harrison, 2011-01-27 This volume 2 and its companion volume 1 present the results of new investigations into the geology paleontology and paleoecology of the early hominin site of Laetoli in northern Tanzania The site is one of the most important paleontological and paleoanthropological sites in Africa worldrenowned for the discovery of fossils of the early hominin *Australopithecus afarensis* as well as remarkable trails of its footprints The first volume provides new evidence on the geology geochronology ecology ecomorphology and taphonomy of the site The second volume describes newly discovered fossil hominins from Laetoli belonging to *Australopithecus afarensis* and *Paranthropus aethiopicus* and presents detailed information on the systematics and paleobiology of the diverse associated fauna Together these contributions provide one of the most comprehensive

accounts of a fossil hominin site and they offer important new insights into the early stages of human evolution and its context Bollettino della Società paleontologica italiana ,2009 University of California Publications. Bulletin of the Department of Geological Sciences University of California, Berkeley,1995 **Records of the Australian Museum** ,1998

Subject Guide to Books in Print ,1975 *The Cumulative Book Index* ,1995 A world list of books in the English language **Yearbook of Physical Anthropology** ,2001 *The Zoological Record* ,1995 **The Evolution of the Primate Hand** Tracy L. Kivell,Pierre Lemelin,Brian G. Richmond,Daniel Schmitt,2016-08-10 This book demonstrates how the primate hand combines both primitive and novel morphology both general function with specialization and both a remarkable degree of diversity within some clades and yet general similarity across many others Across the chapters different authors have addressed a variety of specific questions and provided their perspectives but all explore the main themes described above to provide an overarching primitive primate hand thread to the book Each chapter provides an in depth review and critical account of the available literature a balanced interpretation of the evidence from a variety of perspectives and prospects for future research questions In order to make this a useful resource for researchers at all levels the basic structure of each chapter is the same so that information can be easily consulted from chapter to chapter An extensive reference list is provided at the end of each chapter so the reader has additional resources to address more specific questions or to find specific data

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Table of Contents Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses

1. Understanding the eBook Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses
 - The Rise of Digital Reading Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses
 - Advantages of eBooks Over Traditional Books
2. Identifying Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction

Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses

- Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses
 - Personalized Recommendations
 - Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses User Reviews and Ratings
 - Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses and Bestseller Lists
- 5. Accessing Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses Free and Paid eBooks
 - Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses Public Domain eBooks
 - Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses eBook Subscription Services
 - Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses Budget-Friendly Options
- 6. Navigating Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses eBook Formats
 - ePub, PDF, MOBI, and More
 - Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses Compatibility with Devices
 - Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional

Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses

Implications From Morphometric Analyses

- Highlighting and Note-Taking Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses
- Interactive Elements Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses

8. Staying Engaged with Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses

9. Balancing eBooks and Physical Books Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses

- Setting Reading Goals Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses

- Fact-Checking eBook Content of Evolution Of The Cercopithecoid Forelimb Phylogenetic And Functional Implications From Morphometric Analyses
- Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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