

## Evolutionary Changes in Primates

**Introduction:** When paleontologists discover fossils, they determine whether they have discovered fossils of recent or early organisms. They then determine the kinds of organisms the fossils represent. If a skull were discovered and determined to be a primate skull, the next step would be to determine whether it is of an ape or a human. Because evolutionary change has occurred in both groups, the skull could be of early or modern ape or early or modern human. Because humans and apes evolved along separate lines, certain physical characteristics can be used in an attempt to classify the fossil skull as belonging to either ape (early or modern), early human, or modern human. Techniques similar to the one used in this investigation are used by anthropologists, paleontologists, and archeologists.

In this investigation, you will

- (a) examine gorilla, early human, *Australopithecus*, and modern human skull and pelvic diagrams.
- (b) measure or observe and record specific skull and pelvic structures and features.
- (c) evaluate evolutionary changes that have occurred in these organisms.

**Materials:** metric ruler and protractor

**Procedure:**

### Part I. Skull Characteristics

#### Brain Area Compared To Face Area

The rectangles over the skulls in Figure 1 represent the area of the brain (upper rectangle) and face (lower rectangle) of each skull.

- A. Determine the area of each rectangle by measuring the length and width in centimeters and multiplying the two measurements together.
- B. Record in lines 1 and 2 of Table 1 the brain and face areas for the gorilla, *Australopithecus*, and modern human skulls. A comparison can be made as to whether the brain area is larger or smaller than the face area.
- C. Compare the brain and face areas and complete lines 3, 4 and 5 of Table 1.

#### Cranial Capacity

- D. Measure the diameter in centimeters of the circle in each skull. The diameter is the distance across the exact center of each circle.
- E. Multiply the cranial diameters by  $200 \text{ cm}^2$ . This gives the cranial capacity (brain volume) in cubic centimeters.
- F. Record the cranial capacity for each skull in line 6 of Table 1.

**NOTE:** This method of measuring cranial capacity differs from the method used when an intact skull is available.

# Evolutionary Changes In Primates Lab Answers

**Constance Scharff,Angela D.  
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## **Evolutionary Changes In Primates Lab Answers:**

Exploring Physical Anthropology Laboratory Manual & Workbook Suzanne E. Walker-Pacheco, 2017-02-01 Exploring Physical Anthropology is a comprehensive full color lab manual intended for an introductory laboratory course in physical anthropology. It can also serve as a supplementary workbook for a lecture class particularly in the absence of a laboratory offering. This laboratory manual enables a hands on approach to learning about the evolutionary processes that resulted in humans through the use of numerous examples and exercises. It offers a solid grounding in the main areas of an introductory physical anthropology lab course: genetics, evolutionary forces, human osteology, forensic anthropology, comparative functional skeletal anatomy, primate behavior, paleoanthropology, and modern human biological variation.

*Neurobiology of human language and its evolution: Primate and Nonprimate Perspectives* Constance Scharff, Angela D. Friederici, Michael Petrides, The evolution of human language has been discussed for centuries from different perspectives. Linguistic theory has proposed grammar as a core part of human language that has to be considered in this context. Recent advances in neurosciences have allowed us to take a new neurobiological look on the similarities and dissimilarities of cognitive capacities and their neural basis across both closely and distantly related species. A couple of decades ago the comparisons were mainly drawn between human and non human primates investigating the cytoarchitecture of particular brain areas and their structural connectivity. Moreover comparative studies were conducted with respect to their ability to process grammars of different complexity. So far the available data suggest that non human primates are able to learn simple probabilistic grammars but not hierarchically structured complex grammars. The human brain which easily learns both grammars differs from the non human brain among others in how two language relevant brain regions Broca's area and superior temporal cortex are connected structurally. Whether the more dominant dorsal pathway in humans compared to non human primates is causally related to this behavioral difference is an issue of current debate. Ontogenetic findings suggest at least a correlation between the maturation of the dorsal pathway and the behavior to process syntactically complex structures although a causal prove is still not available. Thus the neural basis of complex grammar processing in humans remains to be defined. More recently it has been reported that songbirds are also able to distinguish between sound sequences reflecting complex grammar. Interestingly songbirds learn to sing by imitating adult song in a process not unlike language development in children. Moreover the neural circuits supporting this behavior in songbirds bear anatomical and functional similarities to those in humans. In adult humans the fiber tract connecting the auditory cortex and motor cortex dorsally is known to be involved in the repetition of spoken language. This pathway is present already at birth and is taken to play a major role during language acquisition. In songbirds detailed information exist concerning the interaction of auditory motor and cortical basal ganglia processing during song learning and present a rich substrate for comparative studies. The scope of the Research Topic is to bring together contributions of researchers from different fields who investigate grammar processing in humans, non human primates and

songbirds with the aim to find answers to the question of what constitutes the neurobiological basis of grammar learning  
Open questions are Which brain networks are relevant for grammar learning Is there more than one dorsal pathway one from temporal cortex to motor cortex and one to Broca's area and if so what are their functions Has the ability to process sequences of a given hierarchical complexity evolved in different phylogenetic lines birds primates other vocal production learners such as bats Is the presence of a sensory to motor circuit in humans a precondition for development of a dorsal pathway between the temporal cortex and Broca's area What role do subcortical structures Basal Ganglia play in vocal and grammar learning

*Primates and Human Cancer*, 1979      The Edge of Evolution Michael J. Behe, 2008-06-17 Draws on new findings in genetics to pose an argument for intelligent design that refutes Darwinian beliefs about evolution while offering alternative analyses of such factors as disease random mutations and the human struggle for survival      **CUET PG Environmental Science - Question Bank (2400 MCQs Chapterwise)** Mocktime Publication, 2400 MCQs CUET PG Question Bank Environmental Science CUEG PG Previous Papers CUET PG Syllabus CUET PG Exam Pattern      **Teacher's Wraparound Edition: Two Biology Everyday Experience** Albert Kaskel, 1994-04-19      **Vertebrate Biology** Donald W. Linzey, 2020-08-04 The most trusted and best selling textbook on the diverse forms and fascinating lives of vertebrate animals Covering crucial topics from morphology and behavior to ecology and zoogeography Donald Linzey's popular textbook Vertebrate Biology has long been recognized as the most comprehensive and readable resource on vertebrates for students and educators Thoroughly updated with the latest research this new edition discusses taxa and topics such as systematics and evolution zoogeography ecology morphology and reproduction early chordates fish amphibians reptiles inclusive of birds and mammals population dynamics movement and migration behavior study methods extinction processes conservation and management For the first time 32 pages of color images bring these fascinating organisms to life In addition 5 entirely new chapters have been added to the book which cover restoration of endangered species regulatory legislation affecting vertebrates wildlife conservation in a modern world climate change contemporary wildlife management Complete with review questions updated references appendixes and a glossary of well over 300 terms Vertebrate Biology is the ideal text for courses in zoology vertebrate biology vertebrate natural history and general biology Donald W Linzey carefully builds theme upon theme concept upon concept as he walks students through a plethora of topics Arranged logically to follow the most widely adopted course structure this text will leave students with a full understanding of the unique structure function and living patterns of all vertebrates

**Amino-acid, Peptide & Protein Abstracts**, 1975      **Biological Anthropology** Michael Park, 2012-05-04      **Life Science, Grades 6-7** Tony Wright, 1994-07-13      **Journal of Vertebrate Paleontology**, 2007      *A Companion to Paleoanthropology* David R. Begun, 2012-12-20 A Companion to Paleoanthropology presents a compendium of readings from leading scholars in the field that define our current knowledge of the major discoveries and developments in human origins and human evolution tracing the fossil record from primate and hominid origins to the

dispersal of modern humans across the globe Represents an accessible state of the art summary of the entire field of paleoanthropology with an overview of hominid taxonomy Features articles on the key discoveries in ape and human evolution in cranial postcranial and brain evolution growth and development Surveys the breadth of the paleontological record from primate origins to modern humans Highlights the unique methods and techniques of paleoanthropology including dating and ecological methods and use of living primate data to reconstruct behavior in fossil apes and humans

**the origins of life and evolution** ,1982      **GED Test Three** Robert Mitchell,1994 Provides test taking tips practice questions and sample tests      Neotropical Primates ,1997      *Genetics Abstracts* ,1995      *Proceedings of the Rochester Academy of Science* Rochester Academy of Science,1998 List of members in v 1 2 4      *Society for Neuroscience Abstracts* Society for Neuroscience. Annual Meeting,1999      **Behavioural Biology Abstracts** ,1981      Research/Penn State ,1995

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