



## **Physical Anthropology, 12<sup>th</sup> edition**

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### **Chapter Changes**

#### Chapter 1 Investigating the Nature of Humankind

- Updated research and references
- Expanded discussion on evolution and anti-evolution movements
- New and updated photos
- Updated End-of-Chapter Study Questions

#### Chapter 2 The Study of Heredity

- Entire chapter significantly revised and restructured to reflect recent findings in the study of heredity.

#### Chapter 3 The Modern Study of Human Genetics

- Entire chapter significantly revised and restructured to reflect recent findings and research in human genetics

#### Chapter 4 Population Genetics

- Updated research and references
- Discussion on genetic equilibrium in a large population
- Updated suggested readings

## Chapter 5 Natural Selection and the Origin of Species

- Updated research and references
- New discussion on the concept of group selection
- New and updated photos
- Updated suggested readings

## Chapter 6 People's Place in Nature

- Updated research and references
- Revised Box 6.2 The Feet of Whales
- New and updated photos
- Updated suggested readings

## Chapter 7 The Living Primates

- Updated research and references
- Revised Box 7-1 The Advantages of Color Vision
- New Figure 7.11 Haplorhine Nose
- Revised Box 7-4 Vanishing Primates
- Updated suggested readings
- Updated suggested websites

## Chapter 8 Comparative Studies: Anatomy and Genetics

- Updated research and references
- Revised Figure 8.3 The Pelvis and Trunk: A comparison of the pelvis and trunk in the chimpanzee and human.
- Revised Figure 8.4 Gluteal Musculature in a Chimpanzee and a Human
- Revised Figure 8.14 Four Types of Primate Teeth
- Revised Figure 8.15 Molar Morphology and Diet
- Revised Figure 8.20 Simian Shelf and Chin
- Revised Figure 8.21 The Muscles of the Jaws
- New and updated photos
- Updated suggested readings

## Chapter 9 Nonhuman Primate Behavior

- Updated research and references
- Revised Box 9-2 The Rhesus Monkeys of Cayo Santiago
- Updated suggested readings
- Updated suggested websites

## Chapter 10 Human Behavior in Perspective

- Updated research and references
- New material on ape-language research
- Revised Box 10-2 Bird and Human Communication: Alex the Parrot and the FOXP2 Gene
- Updated suggested readings
- Updated suggested website

## Chapter 11 The Record of the Past

- Updated research and references
- New information on *Orrorin tugenensis*

- Revised Figure 11.3 The Process of Fossilization
- Revised Figure 11.7 Stratigraphic Cross Section of MK Site, Olduvai Gorge, Tanzania
- Revised Box 11-3 The Piltdown Skull
- Revised Figure 11.12 The Geomagnetic Reversal Time Scale

#### Chapter 12 The Early Primate Fossil Record and the Origins of the Hominins

- Updated research and references
- Revised Figure 12.5: Apidium
- Revised Figure 12.6 Aegyptopithecus
- Revised Figure 12.7 Aegyptopithecus: The reconstructed postcranial skeleton
- Revised Figure 12.10 Proconsul
- Revised Figure 12.12 Proconsul A reconstruction of the skeleton of Proconsul africanus.
- Revised Figure 12.13 Afro-Arabian/Eurasian Land Bridge
- Revised Figure 12.18 Mandibles of Gigantopithecus and Gorilla
- Updated suggested readings

#### Chapter 13 The Early Hominins

- Updated research and references
- Revised Figure 13.19 Australopithecus bahrelghazalia: fragment of an adult mandible
- Revised Figure 13.22 Reconstruction of "Lucy"
- Revised Figure 13.24 Early Hominin Dentition
- Revised Figure 13.26 Pelvis and Fetal Head
- Revised Figure 13.28 Early Hominin Facial Skeleton

#### Chapter 14 Early Species of the Genus Homo

- Updated research and references
- New discussion on paramastication
- New discussion on neuroplasticity
- Revised Table 14.1 The Genera Australopithecus, Paranthropus, and Homo Compared
- Revised Table 14.2 Cranial Capacities of Homo
- Revised Figure 14.17 Homo neanderthalensis
- Revised Table 14.4 Homo neanderthalensis and Homo sapiens Compared
- Revised Figure 14.20 The Neanderthal Scapula
- Revised Figure 14.22 Plan of Butchering Site, FLK North, Level 6, Olduvai Gorge
- Revised Figure 14.24 Early Paleolithic Tools
- Revised Figure 14.28 Mousterian Industries
- Updated suggested readings

#### Chapter 15 The Evolution of Homo sapiens

- Updated research and references
- New discussion of the origins of modern Homo sapiens
- Expanded discussion on the "Mitochondrial Eve" hypothesis
- Added discussion of Homo naledi
- Revised Figure 15.10 Beringia
- New Figure 15.12 Hominin Evolution Overview
- Revised Figure 15.12 Upper Paleolithic Tool Types
- Revised Figure 15.13 The Spear Thrower
- Revised Figure 15.18 Mesolithic Artifacts

- Revised Figure 15.19 Neolithic Artifacts

#### Chapter 16 The Biology of Modern Homo sapiens

- Updated research and references
- Revised Figure 16.1 The Igloo
- Revised Figure 16.7 Body Build
- Revised Figure 16.12 Average Ages of Eruption of Deciduous and Permanent Dentition
- Revised Box 16-2 Aging
- Expanded discussion on forensic anthropology
- Expanded discussion on human ancestral groups

#### Chapter 17 The Analysis of Human Variation

- Updated research and references
- Revised Table: Comparison of Traits in Five Populations
- Revised Figure 17.8 Intelligence Testing
- Updated suggested readings
- Updated websites

#### Chapter 18 The Modern World

- Updated research and references
- New Boxed Feature: Ocean Waste
- Expanded discussion on climate change
- Revised Table 18.1 Human Population Growth
- Updated suggested readings
- Updated websites

## Digital

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