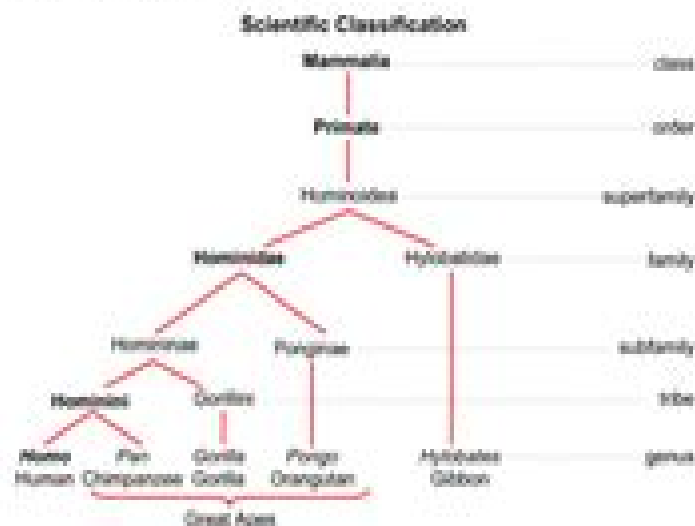


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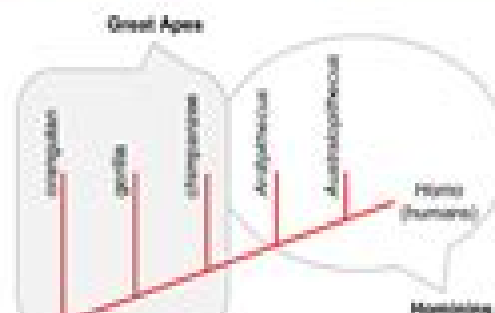
THE PLACE OF HUMANS IN THE ANIMAL KINGDOM

- Humans are **mammals**, belonging to the class **Mammalia**, because their bodies are covered in hair and they suckle their young. All mammals also have three ossicles (bones) in the middle ear.
- Humans are classified in the class **Mammalia**, order **Primates**. Primates include humans, apes, orangutans, gorillas and chimpanzees.
- The order **Primates** includes the superfamily **Hominoidae** that is subdivided into two families, i.e. **Hominidae** (Great Apes and humans) and **Hylobatidae** (gibbons).
- Family **Hominidae** is divided into two subfamilies, i.e. **Ponginae** and **Homininae**.
- Some scientists divide the subfamily **Homininae** into two more tribes, i.e. **Hominini** and **Gorillini**.
- Humans, gorillas and chimpanzees fall under the subfamily **Homininae** and the orangutans are part of **Ponginae**.
- Humans belong to the genus **Homo**.



All members of the family **Hominidae** are known as **hominids** (Great Apes and humans). However, certain sources refer to hominids as only humans and their fossil ancestors (the Great Apes excluded). A new term, **homininae**, is currently used by scientists, which refers to humans and their fossil ancestors.

NB: In this study guide we will use the term **hominin** for bipedal humans and their fossil ancestors. The term **hominid** will be used when reference is made to the Great Apes as well as humans and their fossil ancestors. **Great Apes** are also often referred to as **African Apes**.



Individuals of the genera **Ardipithecus** and **Australopithecus** as well as early **Homo**-species are considered fossil ancestors of modern humans. Modern humans are classified in the genus and species **Homo sapiens**. These three genera have ape-like as well as human characteristics and they are sometimes referred to as 'ape-men'. See p. 9 for a more detailed discussion of these three genera.

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element and mineral mixtures wolin wolin wolfe 1963 which is hereafter referred to as mbms tet

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isolation of genomic dna from sambrook et al molecular cloning manual vol 2 p 9 16 9 19 1 grind tissue in liquid nitrogen and then place in approximately 10 volumes of extraction buffer shake and submerge material and then incubate for 1 hr at 37 c 2 add protease k to a final concentration of 100µg/ml gently mix the enzyme into the