

Fossil Primates

Geological time chart

rodent-primate competition

Continental drift (Plate tectonics)

Pangaea (Permian extinction)

Tethys Sea

Gondwanaland (southern)

Lurasia (northern)

angiosperms (flowering plants w/ seeds in a closed ovary)

*Purgatorius* (Dakotas, Montana)

Paleocene (65-53 mya)

*Plesiadapis* [ancestry in question; resemblance to Colugo which is not a primate]

*Altiatlasius* (High Atlas Mts., Morocco- 60 mya)

Eocene (53-37 mya)

4 or 5 families: Adapidae, Tarsiidae, Anaptomorphidae, Omomyidae

>60 genera

*Notharctus*, *Smilodectes*, *Adapis* : lemur-like F. **Adapidae**

*Tetonius*, *Necrolemur* : tarsier-like: F. **Omomyidae**

Evolution of the Anthropoids

possible ancestors in Egypt and/or Burma

Oligocene (37-22.5 mya)

Fayum, Egypt

1. *Oligopithecus savagei*

(2.1.2.3)

2. Parapithecidae

*Apidium* (2.1.3.3) & *Parapithecus*

3. Propithecidae

*Propithecus/Aegyptopithecus*

Monkey evolution: (e.g., of parallel evolution) 50 mya

New World monkeys: *Branisella boliviana* (late Oligocene), Bolivia, South America

Old World monkeys: *Victoriapithecus*, *Prohylobates* [oldest fossils from early Miocene]