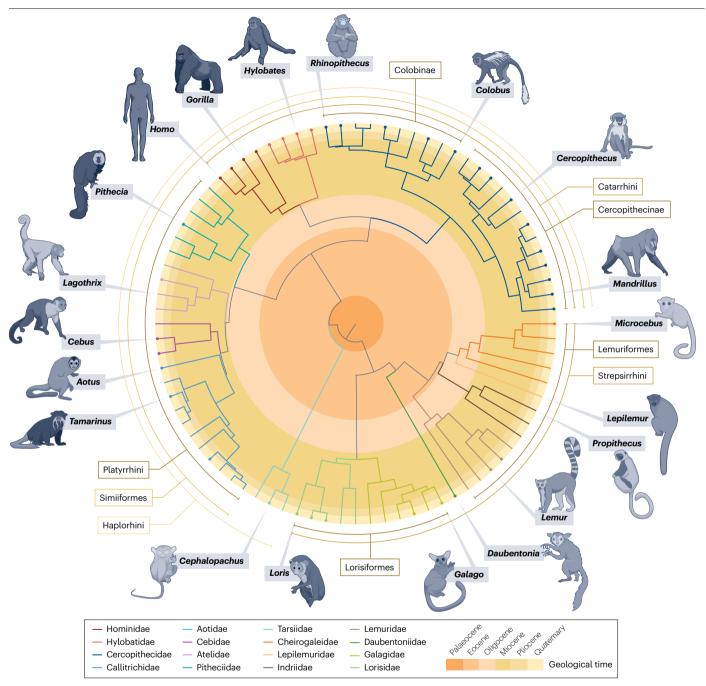
## **Review article**



**Fig. 1**| **Time-calibrated phylogeny of extant primates.** Overview of phylogenetic relationships among the 84 extant primate genera along with their higher-level classification, with representative species illustrations. Radial sectioning corresponds to divergence time. Clades are coloured according to

family and higher-level classifications are bracketed and labelled. Genera for which high-quality reference genomes are available are denoted with a circle on the branch tip. Phylogenetic data and divergence times are from ref. 30, or have been recalculated from refs. 25,226-231.

diversity of environments in which primates live, it is not surprising that primates exhibit a variety of adaptations for identifying and making use of sensory information  $^{54}$ . Vision and olfaction are the best studied senses in primates, whereas less information is available for taste. Comparative studies of the two mechanical senses — hearing and touch — are still largely missing for primates  $^{54}$ .

## Vision

The common ancestor of all living primates was very probably nocturnal, and nocturnality remains the dominant condition among Strepsirrhini<sup>55</sup>. Most Strepsirrhini (like many other nocturnal vertebrates) have a tapetum lucidum, a layer in the retina that reflects light and enhances night vision<sup>56</sup>. The tapetum lucidum is absent