

(*Mesopithecus*) intermediate between the living *Semnopithecus* of Asia and the Macaques. The carnivores are represented by *Simocyon*, *Mustela*, *Promephitis*, *Ictitherium*—a genus allied to the modern civet—*Hyænictis*, *Hyæna*, *Machairodus*, and several species of *Felis*; the rodents by *Hystrix*, allied to the common porcupine; the edentates by the gigantic *Ancylotherium*; the proboscideans by *Mastodon* and *Deinotherium*; the pachyderms by *Rhinoceros* (several species), *Aceratherium*, *Leptodon*, *Hipparion*, and a gigantic wild boar (*Sus erymanthius*); the ruminants by *Camelopardalis*, of the same size as the living giraffe, *Helladotherium*—a form between the giraffe and the antelopes, three species of true antelope—*Palæotragus*, an antelope-like animal, *Palæoryx*, somewhat like the living African gemsbok, and *Palæoreas*, allied to the African eland and the gazelles, *Gazella*, a true gazelle, *Dremotherium*, probably a hornless ruminant like the living chevrotains. A few remains of birds have also been met with, including a *Phasianus*, related to our pheasant, a *Gallus*, smaller than our common

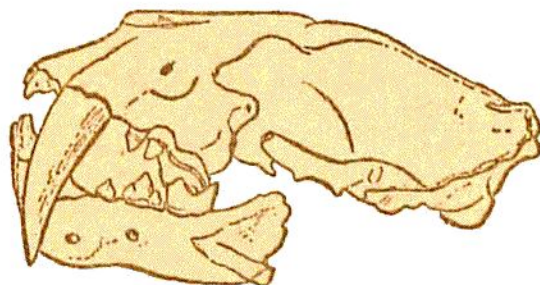


Fig. 452.—Head of *Machairodus*, the sabre-toothed Tiger, reduced.

domestic fowl, a *Grus*, closely related to the living crane; also bones of a turtle and a saurian (*Varanus*). This fauna is remarkable for the extraordinary abundance of its ruminants, the colossal size of many of the forms, such as the giraffe and *Helladotherium*, the singular rarity of the smaller mammals, the marked African facies which runs through the whole series, and the number of transitional types which it contains. Out of the 31 genera of mammals which have been obtained, 22 are extinct. The Pikermi beds have been classed as Upper Miocene, but the occurrence of 4 characteristic marine Pliocene species of shells below them (*Pecten benedictus*, *Spondylus goeuderopus*, *Ostrea lamellosa*, *O. undata*) justifies their being placed in a later stage of the Ter-

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Address, Geol. Sect. Brit. Assoc. 1884. W. Dames (*Zeitsch. Deutsch. Geol. Ges.* xxxvi. 1883, p. 9) has added a species of *Cervus* and one of *Mus* to the previously known Pikermi forms.