

cans, marabouts, cranes, secretary-birds, eagles, grouse, and numerous gallinaceous birds—a fauna reminding us of that of the lakes in Southern Africa.<sup>58</sup> The mammalia increase



Fig. 434.—Oligocene Gasteropods.

*a*, *Planorbis euomphalus*, Sow. (‡); *b*, *Terebralia* (*Cerithium*) *plicata*, Lam. (‡);  
*c*, *Potamides cinctus*, Sow. (‡); *d*, *Limnæa longiscata*, Brongn. (‡).

in variety of forms. According to Gaudry the following chronological sequence of appearances and disappearances during the Oligocene period have been noted:<sup>59</sup>

Upper.—St. Gerand-le-Puy (Allier), Calcaire de Beauce in part, Sables de Fontainebleaux, Hamstead beds.	}	Appearance of the genera <i>Rhinoceros</i> (?), <i>Tapir</i> , <i>Palæochcerus</i> shrew, <i>Plesiosorex</i> , <i>Mysarachne</i> , mole, muskrat, <i>Lutricitis</i> , <i>Palæonycteris</i> , <i>Tetracus</i> . Disappearance of <i>Palæotherium</i> . Reign of <i>Hypotamus</i> and <i>Anthracotherium</i> .
Middle.—Calcaire de Brie, etc.	}	Appearance of the genera <i>Cadurcotherium</i> , <i>Hyrachius</i> , <i>Entelodon</i> , <i>Anthracotherium</i> , <i>Dacrytherium</i> , <i>Chalicotherium</i> , <i>Tragulohyus</i> , <i>Lophiomeryx</i> , <i>Hyæmoschus</i> (?), <i>Gelocus</i> , <i>Dremotherium</i> , <i>Thereutherium</i> , dog (?), civet, marten, <i>Plesictis</i> , <i>Plesiogale</i> , <i>Ælurogale</i> , <i>Rhinolophus</i> , <i>Necrolemur</i> .
Lower.—Lacustrine gypsum of Paris, beds of Vaucluse, St. Hippolyte, Canton, Souvignargues, Bembridge beds.	}	Appearance of the genera opossum, <i>Chœropotamus</i> , <i>Tapirulus</i> , <i>Anoplotherium</i> (Fig. 435), <i>Eurytherium</i> , <i>Cainotherium</i> , <i>Anchilophus</i> , <i>Acotherulum</i> , <i>Cebochœrus</i> , <i>Xiphodon</i> , <i>Amphimeryx</i> , <i>Plesiartomys</i> , dormouse (?), <i>Trechomys</i> , <i>Galethylax</i> (?), <i>Hyænodon</i> , <i>Adapis</i> . Reign of pachyderms. The carnivora have still partly marsupial characters.

<sup>58</sup> A. Milne Edwards, "Oiseaux Fossiles de la France," 1867-71; Boyd Dawkins, "Early Man in Britain," p. 54.

<sup>59</sup> "Les Enchainements du Monde Animal," 1878, p. 4.