relations to the Pachyderms, it has close affinities also to the Ruminants. It is a *Sthenomere* and not a Sthenorhine; but it stands in the group of Sthenomeres, between the Ruminants and the Sthenorhines,⁶ representing a Pachydermatoid division in the group.

The prosthenic species, it appears, are the gross-amplificate, and the metasthenic are the long-amplificate. But this distinction in amplification is not of that fundamental nature which would lead to its being an exclusive feature of either type; and yet the exceptions to its being so are remarkably few. In the grossamplificate group, or that of the Sthenorhines, the Macrauchenia, if a Tapiridean (see p. 172), is one exception—the species having, according to Owen, a long neck, nearly as in the Llamas. The extinct Paleotheres are other exceptions; for in these Eocene associates of the Anoplotheres the metacarpals and metatarsals have about the elongation of those of the Anoplotheres. All the long-amplificate Sthenorhines are extinct species (p. 183).

The distinction of prosthenic and metasthenic observed in the extremities of the limbs, or the digits, which has given rise to the subdivision into Imparidigitates and Paridigitates, affords an indication of grade under the above two grand divisions—the paridigitate species being the inferior. Thus the Hog-group (paridigitate) stands below the Tapir-group (imparidigitate), and is, hence, at the foot of the Sthenorhines; and the Horse-group (imparidigitate) is at the head of the Sthenomeres. As this distinction is inferior in sthenic value to that of prosthenic and metasthenic manifested in the general structure (pp. 161, 162), it cannot properly be made the basis of the principal grand divisions of Herbivores, as proposed by Owen, unless all such sthenic characters are overruled by fundamental resemblances in type, which is here not the case; the type-resemblances bear the other way, and not to a separation of the Hogs and Tapirs, nor to a union in one group of the Hogs and Ruminants.

The existence in Paridigitates of two horns, one either side of the front, is mentioned by Owen as an example of *pairs* in these species, additional to that in the toes; and the occurrence in the Imparidigitates of a horn (or horns) only on the medial line of the front as an additional case in these Herbivores of an odd organ. This odd horn occurs only in the Rhinoceroses among the Imparidigitates, and on a *medial* organ, the nose; and with so small a range of facts to sustain the deduction, we may reasonably doubt the alleged connection between the odd or

⁵ It may also be here repeated that the Horse is related to the Ruminants in not having a *decidua* developed,—a *decidua*, as stated by Huxley, characterizing the higher Megasthenes, from Man through the Quadrumanes and Carnivores to the higher Herbivores (the Elephant and Hyrax, at least); but not the species of the Hog-group, the lowest of Sthenorhines, nor any of the Sthenomeres. (See Art. II, p. 13).