

other dogs, or as improved pigs, according to H. von Nathusius, do to common pigs.<sup>64</sup> Rütimeyer believes that these cattle belong to the *primigenius* type.<sup>65</sup> The forehead is very short and broad, with the nasal end of the skull, together with the whole plane of the upper molar-teeth, curved upwards. The lower jaw projects beyond the upper, and has a corresponding upward curvature. It is an interesting fact that an almost similar confirmation characterizes, as I am informed by Dr. Falconer, the extinct and gigantic *Sivatherium* of India, and is not known in any other ruminant. The upper lip is much drawn back, the nostrils are seated high up and are widely open, the eyes project outwards, and the horns are large. In walking the head is carried low, and the neck is short. The hind legs appear to be longer, compared with the front legs, than is usual. The exposed incisor teeth, the short head and upturned nostrils, give these cattle the most ludicrous, self-confident air of defiance. The skull which I presented to the College of Surgeons has been thus described by Professor Owen: <sup>66</sup> "It is remarkable from the stunted development of the nasals, premaxillaries, and fore-part of the lower jaw, which is unusually curved upwards to come into contact with the premaxillaries. The nasal bones are about one-third the ordinary length, but retain almost their normal breadth. The triangular vacuity is left between them, the frontal and lachrymal, which latter bone articulates with the premaxillary, and thus excludes the maxillary from any junction with the nasal." So that even the connexion of some of the bones is changed. Other differences might be added: thus the plane of the condyles is somewhat

<sup>64</sup> 'Schweineschädel,' 1864, s. 104. Nathusius states that the form of skull characteristic in the *niata* cattle occasionally appears in European cattle; but he is mistaken, as we shall hereafter see, in supposing that these cattle do not form a distinct race. Prof. Wyman, of Cambridge, United States, informs me that the common cod-fish presents a similar monstrosity, called by the fishermen "bull-dog cod." Prof. Wyman also

concluded, after making numerous inquiries in La Plata, that the *niata* cattle transmit their peculiarities or form a race.

<sup>65</sup> Ueber Art des zahmen Europ. Rindes, 1866, s. 28.

<sup>66</sup> 'Descriptive Cat. of Ost. Collect. of College of Surgeons,' 1853, p. 624. Vasey, in his 'Delineations of the Ox-tribe,' has given a figure of this skull; and I sent a photograph of it to Prof. Rütimeyer.