ambiguous nature, since systematically the horny sponges present a kind of circulus vitiosus. Through Luffaria and Verongia, Euspongia is connected with Aplysina, but, on the other hand, it is also, through Carteriospongia, connected with Spongelia; now Spongelia through Velinea is connected with Aplysilla, and again Aplysilla through Ianthella is connected with Aplysina. It is evident that under such circumstances the families of Dr. Vosmaer are by no means natural systematic groups. With regard to the mutual relations of the genera of different families, such a circulus vitiosus is inconceivable, and proves only that such families are not natural. As I remarked before, I adopt the arrangement proposed by Dr. Vosmaer; to attempt a better one would, I believe, be at present premature; but I adopt it only as an arrangement of a provisional character.

The foregoing observations were begun in order to decide the question—Which of the existing systems of the Keratosa is the most to be recommended? The unexpected result at which we arrived is of such high importance that its further foundation becomes desirable, and as this latter demands a detailed discussion of characters used by classifiers as systematic distinctions between different representatives of our conjectural families, I now pass on to those of generic value.