

The skeleton presents stout genital plates, with clubbed ends, much as in *Ophiura*, and having attached a long, thin genital scale broken in two or more pieces. The peristomial plates are in two stout pieces, which form together a wide heart-shape. Arm bones as high as wide, with long tops, having a deep longitudinal canal, while their wings are thin and have sharp edges. In contrast to the delicate imbricated scaling of the disk is the size of the radial shields, which touch each other, are very wide, and have a process inward. (See Pl. XXXVII. figs. 4-6.)

Species of *Ophiopæpale* not herein described.

*Ophiopæpale goësiana*, Ljn. (Pl. XXXII. figs. 4-6).

*Ophiopæpale goësiana*, Ljn., Dr Goës, Oph. Öf. Kong. Akad., 1871, p. 615; Lym., Bull. Mus. Comp. Zool., vol. v. part 9, p. 228.

West Indies; 100 to 180 fathoms.

*Ophiogona*.

*Ophiogona*, Studer, Monatsb. König. Akad. Berlin, July 1876.

Mouth papillæ, about fourteen to each angle. Teeth in a double row; no tooth papillæ. Disk clothed with fine scales, covered by a soft skin; and without notches in its upper sides, at the basis of the arms. Numerous (3-6) flat tentacle scales, arranged along transverse pores. Nine short arm spines. Mouth shields long and extending into the interbrachial space, which has two genital openings.

Species of *Ophiogona* not herein described.

*Ophiogona lævigata*, Studer, Monatsb. König. Akad. Berlin, p. 460, July, 1876.

Kerguelen Islands; 120 fathoms.

*Ophiolepis*.

*Ophiolepis*, Müll. & Tr., Wieg. Arch., vol. vi., 1840.

Disk covered with radial shields and stout plates; each larger one, above, being surrounded by a belt of smaller ones. Over the base of each arm, a small notch in the disk. Genital scales thick and conspicuous. Teeth; no tooth papillæ; numerous even, close-set mouth papillæ. Side mouth shields wide, and nearly, or quite, meeting within. Arm spines short and small, supplementary pieces to the upper arm plates. Two short genital openings, beginning at the sides of the mouth shields.

As compared with the massive disk plates, the skeleton proper is somewhat slight,