

bag, where they go through a pore into the bursa, which is merely a lobed indentation of the disk wall, and is even somewhat coloured on the inside. In that respect it is not quite like the bursa of most Ophiurans, which is composed of the lining membrane, or layer, of the body wall.

The spermatozoa of *Ophiocreas ædipus* after their long immersion in alcohol, were doubtless much altered. Strongly magnified, they resembled little translucent grains of boiled sago, but showed no projection or ciliary tail.

In fig. 1, the floor of the digestive cavity (*St, St*) is slit to expose the spermatoc pouch, so that the lower portion is separated from the upper one, which lies under the radial shield (*l*), and whose roof grows closely to the disk wall, as in *Astrophytons*. It also adheres, as mentioned above, to the interbrachial floor of the disk wall. Indeed, it is scarcely free at any point save a space along the top of the arm, which forms an oblong sinus.

The interior of the digestive cavity is lightly marked by radiating pleats, and there are also five pairs of strong radiating ridges, a pair over each arm, which form partial partitions.

TABLE OF SPECIES OF *Ophiocreas*.

Diameter of Disk to length of Arm.	Width of Arm to diameter of Disk.		
1 : 19	1 : 4½	Skin smooth, thin, and tight. Towards middle of arm, lower tentacle scale as long as two joints, and a little clubbed. Radial shields slender but meeting in the centre. Side arm plates stout, and at base of arm joined to well-marked under arm plates, while the upper arm plates are rudimentary.	<i>Ophiocreas lumbricus</i> .
1 : 21	1 : 6	Skin smooth, thin, and tight. Lower tentacle scale (which is shorter than in <i>Ophiocreas lumbricus</i>) enclosed in a club-ended skin bag. Radial shields feeble and not meeting in centre. But side arm plates very stout, and joined to thick upper arm plates. Under arm plates well marked.	<i>Ophiocreas ædipus</i> .
1 : 12-18	1 : 2	Skin very thick, loose, and wrinkled. Tentacle scales short and not club-ended. Side arm plates meeting below and joined to thick, crust-like, upper arm plates. Basal under arm plates well marked.	<i>Ophiocreas carnosus</i> .
1 : 13	1 : 4	Skin thick and a little puffed on arms. Tentacle scales cased in thick skin bags; and nearly as long as in <i>Ophiocreas lumbricus</i> . Mouth angles swollen so as nearly to fill the mouth, as in <i>Ophiocreas carnosus</i> .	<i>Ophiocreas caudatus</i> .
1 : 7½	1 : 4	Skin soft and moderately thick. Tentacle scales short; the lower one longer, but scarcely club-ended. Side arm plates like little mamelons. No upper arm plates.	<i>Ophiocreas abyssicola</i> .

Note.—The arm plates, mouth shields, &c., can only be seen by removing the skin.