

plate just outside the true mouth shield. Two genital openings in each interbrachial space. *Pectinura* is separated from *Ophiopeza* only by having a supplementary plate outside the mouth shield; and both are distinguished from *Ophiura* by the minor anatomical character in this last, that, by a partial adhesion of the edges of the genital openings, each one is divided into two. The similarity actually found in the skeletons would be expected. In all three the disk is enclosed by a coat of stout imbricated scales and strong radial shields. The genital plates, thick and rather wide, are attached to short, stout genital scales, which, in *Ophiopeza* and *Pectinura* are articulated farther inward, thus shortening the genital opening. The mouth frames and jaws are strong and finely curved and bear three thick peristomial pieces whereof two form an angle, whose opening outward is wedged by the third. The arm bones are of a high type, having thin wings, and the umbo, articulating peg and other subordinate parts well marked.

TABLE OF SPECIES OF *Pectinura*.

Disk covered, under its granulation, with coarse scales or swollen plates.	No pores between under arm plates,	Radial shields granulated. 13-15 arm spines,	<i>Pectinura spinosa</i> .	
		Radial shields granulated. 9 short arm spines,	<i>Pectinura arenosa</i> .	
		Radial shields naked; also some other disk plates. 9 arm spines,	<i>Pectinura infernalis</i> .	
		Radial shields naked. 3 arm spines,	<i>Pectinura heros</i> .	
Pores between first and second under arm plates,	Arms cylindrical at their insertion in the disk, which is puffed,		<i>Pectinura gorgonia</i> .	
		Arms widened at their insertion in the disk, which is flat,	10-11 arm spines,	<i>Pectinura marmorata</i> .
			5-6 arm spines,	<i>Pectinura stellata</i> .
Disk, under its granulation, covered with minute and smooth scales.	Ten thin equal arm spines; underarm plates encroached on by side arm plates,		<i>Pectinura vestita</i> .	
		Pores only between first and second under arm plates,		<i>Pectinura maculata</i> .
			Pores between the under arm plates continued for some distance along the arm,	7-8 conical arm spines, the lowest one a little the longest,
		8-9 flat, pointed arm spines, the lowest one very long and flat, often equal to two joints in length,		<i>Pectinura rigida</i> .
	Of doubtful place,		<i>Pectinura verrucosa</i> .	