

Mülleria echinites, Jæger, 1833; Semper, 1868.

Deposits—small incomplete rosettes, and large simple or irregularly branched rods, having, like the former, the ends of the arms dichotomous.

Habitat.—Indian Ocean (Ludwig), Celebes (Jæger), Padang in Sumatra (Ludwig).

(Mus. Holm.) One specimen from the Fiji Islands. Length, 140 to 150 mm. Colour in alcohol, blackish-brown, with the pedicels, papillæ, and tentacles lighter. Tentacles twenty. Anal teeth of ordinary size. Mouth ventral in position, surrounded by a brim of small papillæ. The ventral cylindrical pedicels very distinctly arranged in three series, though a few pedicels may be found even on the interambulacra. Dorsal papillæ small, not larger than the pedicels, closely placed, and seemingly issuing from minute warts. Deposits crowded, of two kinds—large rod-like bodies, mostly unbranched, or with the ends alone dichotomously branched; and small dichotomously branched incomplete rosettes of the usual shape. There exist great variations in size between these two extremes, but a good many transitional forms may be found among them. The papillæ have very rudimentary terminal plates. The species evidently bears the nearest resemblance to *Mülleria miliaris* and *Mülleria lecanora*.

B. Tentacles twenty-five to twenty-seven.

Mülleria mauritiana (*Holothuria*), Quoy and Gaimard, 1833; Brandt, 1835; Selenka, 1868. *Mülleria varians*, Selenka, 1867.

Tentacles twenty-five. Deposits—in the dorsal integument longer and shorter rods with small processes running out from the sides, and with the ends spinous or more or less distinctly dichotomous; in the ventral perisome small smooth oval grains and larger smooth unbranched rods with the ends slightly rough.

Habitat.—Philippine Islands (Semper), Society Islands (Selenka), Navigator Islands (Semper), Fiji Islands and Sandwich Islands (Selenka), Querimba and Red Sea (Semper), Mauritius (Quoy and Gaimard, Haacke, Ludwig), Amboina, Java, Padang, Pulo Penang (Ludwig), Mozambique, Darros Island, and (?) Amirante Islands (Bell).

(Mus. Holm.) Several individuals from Pulo Penang, Navigator Islands, Fiji Islands, Tahiti, Marquesas, Paumotu, Apia, and Eooa. Tentacles varying from twenty-four to twenty-six. The largest specimen attains a length of 160 mm. Colour auburn, lighter on the ventral surface; white rings surrounding the bases of the papillæ, especially obvious on the sides of the body, and in the neighbourhood of the anus. Pedicels very crowded, not arranged in distinct series. The conical dorsal papillæ are of about the same size as the pedicels. Deposits of the dorsal surface—incomplete rosettes; and numerous elongate rods which are granulated or provided with numerous crowded simple or branched, unequal protuberances. Deposits of the ventral surface—more or less complete rosettes; numerous elliptic bodies which are smooth or provided with incisions; and rods resembling those in the dorsal perisome, but smooth or with less prominent protuberances.