

This genus is evidently similar to *Ecionema*, but I retain it provisionally on account of the difference between the microxea which distinguishes it and the microstrongyle of the latter. The Ecionemid microstrongyle is probably derived from a minute aster, and does not exhibit an axial fibre, the *Papyrula* microxea is probably derived from a large aster, and does exhibit an axial fibre. If this distinction should hold good, the species *Ecionema bacilliferum*, var. *obtusum*, Carter, would have to be included in *Papyrula*, since the microstrongyle which characterises it presents an evident axial fibre, and has been derived, not from the chiaster, but from the comparatively large anthaster.

*Papyrula helleri* (O. Schmidt).

*Stelletta helleri*, O. Schmidt, Spong. Adriat. Meeres, Suppl., i. p. 32, pl. iii. fig. 8, 1864.

*Sponge*.—Amorphous, surface smooth, cortex thin, cortical skeleton consisting of centrotylote microxeas.

*Spicules*.—I. Megascleres. 1. *Oxea*, 1.43 by 0.039 mm.

2. *Dichotriæne*, rhabdome proximally strongylate, 0.4 by 0.035 mm., protocladi 0.06 to 0.09 mm. long, deuterocladi 0.19 to 0.24 mm. long.

II. Microscleres. 3. *Microxea*, fusiform, centrotylote, 0.032 to 0.15 mm. by 0.006 mm.

4. *Oxyaster*, centrum small, confluent with the conical actines, a single actine 0.02 mm. in length.

*Colour*.—Black.

*Habitat*.—Lissa, Adriatic; depth, 35 fathoms.

*Papyrula candidata*, O. Schmidt.

*Papyrula candidata*, Oscar Schmidt, Spong. Adriat. Meeres, Suppl., iii. p. 18, pl. iv. fig. 1, 1868.

*Sponge* growing in irregular rounded masses about 30 mm. in diameter. Cortex of the thinness of paper.

*Spicules*.—I. Megascleres. 1. *Oxea*, slender, 0.816 mm. in length.

2. *Dichotriæne*, rhabdome short, protocladus 0.071 mm. in length, deuterocladus 0.1775 mm. in length.

II. Microscleres. 3. *Microxea*, centrotylote or not, from 0.05 to 0.25 mm. in length.

*Colour*.—White externally, yellowish-green within.

*Habitat*.—Coast of Algiers.

The measurements of the spicules are based on mounted preparations presented by Schmidt to the British Museum, and are therefore unreliable. Schmidt gives the size of