

Genus 6. *Amphibleptula*, O. Schmidt.*Amphibleptula*, O. Schmidt, Spong. Meerb. Mexico, p. 28, 1879.

Azoricidæ with a single oscule at the summit, and poriferous areas borne at the ends of short cylindrical processes, irregularly and generally distributed over the sides.

Type—*Amphibleptula madrepora*, O. Schmidt (p. 351).

(?) Genus 7. *Tremaulidium*, O. Schmidt.*Tremaulidium*, O. Schmidt, Spong. Meerb. Mexico, p. 31, 1879.

Founded on a single species.

Type—*Tremaulidium geminum*, O. Schmidt (p. 352).

Genus 8. *Leiodermatium*, O. Schmidt.*Leiodermatium*, O. Schmidt, Spong. Meerb. Mexico, p. 28 ; Spong. Atlant. Gebiet., p. 22, 1870.

,, Zittel, Abhandl. d. k. baier. Akad. d. Wiss., Bd. i. p. 103, 1878.

Azoricidæ of vasiform shape, with comparatively large oscules situated on the outer surface ; pores distributed over the inner surface.

Type—*Leiodermatium lynceus*, O. Schmidt (p. 352).

Genus 9. *Sympyla*, n. gen.*Azorica* (*p.p.*), O. Schmidt, Spong. Meerb. Mexico, p. 89.

Azoricidæ in which the poral terminations of the excurrent canals are collected into separate areas, which are distributed over one side of the sponge ; the oscules are simple, and are distributed over the side opposite to that bearing the pores.

Type—*Sympyla cribrifera* (O. Schmidt, p. 353).

Family II. ANOMOCLADIDÆ, Zittel.

Anomocladina, Zittel, Abhandl. d. k. baier. Akad. d. Wiss., Bd. i. pp. 97, 100, 1878.

,, Sollas, Proc. Roy. Irish Acad., ser. 2, vol. iv. p. 486, 1885.

Anoplia in which the desma is acrepid, a variable number of smooth cylindrical cladi radiate from a thickened centrum, zygois occurs between the expanded ends of the cladi of one desma and the centrum of another.

Genus 1. *Vetulina*, O. Schmidt.

With a single species—*Vetulina stalactites*, O. Schmidt (p. 354).