

9th Family. PLUMULARIDÆ *Ag.*¹—Sertularidæ *Johnst.* (p. p.).

*Aglaophenia Lamx.*² as restricted by McCrady.—*Plumularia Lmk.* (p. p.).—*Sertularia Lin.* (p. p.).

A. Pluma Lamx.—*Sertularia Pluma Lin.*—*Plumularia cristata Lmk.*—*Europe* (Ellis).

A. trifida Ag.—*A. cristata McCr.* (non *Lmk.*).—*Charleston, South Carolina* (McCrady and Agassiz).

A. pennatula Lamx., *A. myriophyllum Lamx.*, *A. tricuspis McCr.*, and *A. arcuata Lamx.*, belong also to this genus.

Plumularia Lmk., as restricted by McCrady.

Pl. quadridens McCr.—*Charleston* (McCrady).

Pl. setacea Lmk.—*Europe* (Ellis).

Pl. pinnata Lmk., *Pl. frutescens Lmk.*, *Pl. Catharina Johnst.*, belong to this genus, and probably also *Laomedea obliqua Sanders.*

*Nemertesia Lamx.*³—*Antennularia Lmk.*

N. antennina Lamx.—*Antennularia antennina Lmk.*—*Europe* (Ellis).

Also *N. ramosa Lamx.*

¹ *Hydræ sessile*, on one side of the stem. Two kinds of sterile hydræ, large ones and small ones, the small ones either in the intervals between the large ones or clustered around them; besides these, fertile calyces, either simple or compound. The tentacles of the hydræ assume a more or less bilateral symmetry. McCrady has already hinted at the propriety of separating this family from the Sertularidæ. Having observed several of these Hydroids alive, I feel justified in carrying out this suggestion.

² *AGLAOPHENIA Lamx.*, 1812.

Aglaophenia, Lamouroux (*Sertularia pluma* Linn.), Bull. Soc. Phil., Paris, 1812, p. 184.

" Lamouroux, Hist. Polyp. Flex., 1816, p. 164.

" Lamouroux, Exposition Méthodique, 1821, p. 11.

Plumularia, Lamarek, Animaux sans Vert., 1816, II. p. 123.

" Fleming, Brit. Animals, 1828, p. 546.

" Blainville, Dict. Sciences Nat., 1830, LX. p. 441.

Plumularia, Blainville, Manuel d'Actinologie, 1834-1836, p. 477.

" Milne-Edwards, in Lmk. An. sans Vert., 2d ed., 1836, p. 158.

" Johnston, Brit. Zoöph., 1838, p. 140.

" Johnston, Brit. Zoöph., 2d ed., 1847, p. 89.

" Sars, Nyt Mag., 1856, p. 163.

" Alder, Catal. Zoöph. North., 1857, p. 28.

Sertularia, Linnaeus, Fauna Suecica, 1761, ed. altera, p. 540.

" Linnaeus, Syst. Nat., 1767, p. 1306.

" Pallas, Elenchus, 1766.

³ *NEMERTESIA Lamx.*, 1812.

Nemertesia, Lamouroux (*Sertularia antennina* Ell.), Bulletin Soc. Phil., Paris, 1812, p. 184.

" Lamouroux, Hist. Polyp. Flexibles, 1816, p. 161.

" Lamouroux, Exposition Méthodique, 1821, p. 10.

Antennularia, Lamarek, An. sans Vert., 1816, p. 122.

" Milne-Edwards, in Lmk., An. sans Vert., 1836, 2d ed., p. 155.