## Subfamily 1. Homasterina.

### Genus 1. *Myriastra*, Sollas.

*Myriastra*, Sollas, Sci. Proc. Roy. Dubl. Soc., vol. v. p. 188, 1886.

Sponge small, frequently more or less spherical; oscules distinct; pores in sieves, leading into widely ramifying subdermal cavities. Ectosome thin, collenchymatous. The microsclere is a chiaster.

Type—*Myriastra subtilis* (p. 113).

### Genus 2. *Pilochrota*, Sollas.

*Pilochrota*, Sollas, Sci. Proc. Roy. Dubl. Soc., vol. v. p. 189, 1886.

Oscules usually distinct; pores in sieves leading into radial incurrent canals which are not constricted on passing through the fibrous layer of the cortex. Ectosome differentiated to form a cortex which usually consists of a middle collenchymatous layer, an outer thinner and an inner thicker fibrous layer. The microsclere is a chiaster.

Type—*Pilochrota haeckeli* (p. 120).

### Genus 3. *Astrella*, Sollas.

*Astrella*, Sollas, Sci. Proc. Roy. Dubl. Soc., vol. v. p. 191, 1886.

The cortex is usually well developed, consisting of a thick outer layer of collenchyma, sharply defined from a thick inner layer of fibrous tissue; the collenchyma passes into a thin fibrous layer beneath the outer epithelium; pores in sieves. Chones completely differentiated, consisting of a main canal traversing the collenchymatous layer, proximally constricted into a narrow tube which passes through the inner fibrous layer, distally divided into several branches each of which terminates beneath a pore-area. The microsclere is a pycnaster.

Type—*Astrella vosmaeri*, n. sp. (p. 181).

## Subfamily 2. Euasterina.

### Genus 4. *Anthastra*, Sollas.

*Anthastra*, Sollas, Sci. Proc. Roy. Dubl. Soc., vol. v. p. 191, 1886.

Sponge usually more or less spherical; oscules distinct or not; pores in sieves overlying extensive ramifying subdermal cavities. An anthaster is present in addition to a chiaster.

Type—*Anthastra pulchra*, n. sp. (p. 183).