3. Gizzard or Stomach.—Almost all the Bulloidea have a stomach armed with horny plates, usually three in number, almost symmetrical (one dorsal, and a lateral one on either side). This number is, however, variable, as is also the symmetry of the plates. Thus in Scaphander the three plates are irregular, the dorsal being very narrow. In Acera there are nine such plates, and in Runcina (=Pelta) four symmetrically disposed as in the Theocosomata, so that in this respect the Bulloidea differ much more among themselves than Runcina differs from the Theocosomata.

Besides this there are in many Bulloidea in front of the three large symmetrical plates twice as many smaller plates, just as in the Thecosomata (Bulla hydatis, Bulla striata, Haminea cornea, &c.).

- 4. Liver.—Philine and Bulla are said to have two hepatic ducts; the less specialised Cavoliniæ (Cavolinia trispinosa and Cavolinia quadridentata, Pl. III. fig. 4, h, j) have also two.
- 5. Anal Gland.—The gland which is found in the Cavoliniae (Clio, Cavolinia) to the left of the visceral cavity at the extremity of the rectum, almost symmetrically with respect to the osphradium, exists also in the Bulloidea; I have seen it in Bulla striata, Haminea hydatis (Pl. II. fig. 3, h), and Haminea cornea; in Scaphander it occupies a prolongation of the mantle which accompanies the visceral sac for several turns of the spire (as Vayssière has already observed); in Actson the arrangement is similar to that of Scaphander, but the extension formed by the gland is much longer and reaches as far as the first coils of the spire.

The Generative Organs.—In Philine⁸ and Doridium⁹ there is a vesicula seminalis comparable to that of certain species of Cavolinia (e.g., Cavolinia tridentata).

The Nervous System.—The cerebral ganglia are separated from each other and connected by a long supracesophageal commissure, both in the Bulloidea and the Thecosomata. The pleural ganglia are fused with the cerebral in the Thecosomata to form a single mass which is usually undivided externally. This is also the case in Actron (Pl. II. fig. 11); in all the other Bulloidea the pleural ganglia are situated near to the cerebral ganglia, so that the cerebro-pleural connectives are either very short or not discernible. We have further seen that in the Thecosomata, e.g., in Cymbulia (Pl. IV. fig. 2), the stomato-gastric nervous system has the same arrangement as in the Bulloidea (Philine): an anterior and a posterior ring connected by threads passing between the horny stomacal plates.

¹ Vayssière, Recherches anatomiques sur les genres Pelta et Tylodina, Ann. d. Sci. Nat. (Zool.), sér. 6, t. xv. pl. i. fig. 4.

² Vayssière, Recherches anatomiques sur la famille des Bullidés, loc. cit., pl. xii. fig. 111.

⁸ Vayssière, Recherches zoologiques et anatomiques sur les Mollusques Opistobranches du Golfe de Marseille, i. Tectibranches, *loc. cit.*, pl. i. fig. 4.

⁵ Vayssière, Recherches anatomiques sur la famille des Bullidés, loc. cit., p. 88.

⁶ Souleyet, Voyage de la Bonite, Zoologie, t. ii. pl. ix. fig. 30.

⁷ Vayssière, Recherches anatomiques sur la famille des Bullidés, loc. cit., p. 90.

⁸ Ibid., pl. x. fig. 83.

⁹ *Ibid.*, pl. viii. fig. 68.