

PLATE IV.

Figs. 1-4. *Molgula gigantea*, Cunningham.

Figs. 5-8. *Molgula gregaria*, Lesson.

- Fig. 1. *Molgula gigantea*, a small specimen, from the left side ; natural size.
- Fig. 2. Part of the branchial sac of *Molgula gigantea*, from the inside, natural size, to show the longitudinal folds (*br.f.*), and the distant transverse vessels (*tr.*).
- Fig. 3. Part of the preceding figure, between two folds, greatly enlarged, to show the infundibula and the stigmata (Hartn., obj. 4).
- Fig. 4. Dorsal part of the branchial sac of *Molgula gigantea*, from the inside, natural size, showing the dorsal tubercle, the peripharyngeal bands, part of the tentacular circlet, the dorsal lamina, the oesophageal aperture, and part of the branchial sac.
- Fig. 5. *Molgula gregaria*, a large specimen, from the dorsal edge of the right side ; natural size.
- Fig. 6. Part of the branchial sac of *Molgula gregaria*, from the inside ; magnified (Hartn., obj. 4).
- Fig. 7. Dissection of the viscera on the right side of the mantle in *Molgula gregaria*, from the inside, showing the genital gland (*g.*), and the renal organ (*r.o.*); natural size.
- Fig. 8. Part of a section through the test of *Molgula gregaria*, showing the large stellate protoplasts (*t.c.*), in some of which clear vacuoles have appeared : magnified (Hartn., obj. 7).