

PLATE III.

Doliolum.

at. Atrial aperture.
at.l. Atrial lobes.
br. Branchial aperture.
br.l. Branchial lobes.
d.t. Dorsal tubercle.
en. Endostyle.
i. Intestine.

m¹-m⁹. Muscle bands.
n.g. Nerve ganglion.
æ. Œsophagus.
p.p. Peripharyngeal bands.
s. Stolon.
sg. Stigmata.
st. Stomach.

Figs. 1-6. Diagrams showing the position of the endostyle and the extent of the branchial sac in various species of *Doliolum*. 1-8. Muscle bands; *en.* Endostyle; *sg.* Stigmata of branchial sac.

Fig. 1. *Doliolum krohni*, n. sp.

Fig. 2. *Doliolum gegenbauri*, Uljanin.

Fig. 3. *Doliolum tritonis*, Herdman.

Fig. 4. *Doliolum challengerii*, n. sp.

Fig. 5. *Doliolum ehrenbergi*, Krohn.

Fig. 6. *Doliolum affine*, n. sp.

Fig. 7. Alimentary canal of specimen of *Doliolum ehrenbergi* obtained in the North Atlantic, May 12, 1876 (S. 1).

Fig. 8. Specimen of *Doliolum affine* obtained in the South Pacific, October 19, 1875, from dorsal surface (S. 1).

Fig. 9. Blastozoid of *Doliolum* sp., obtained in Bass Strait, April 2, 1874, from dorsal surface (S. 1).