

PLATE XXIII.

Figs. 1-6. *Atopogaster gigantea*, n. sp.

Figs. 7-13. *Atopogaster aurantiaca*, n. sp.

bl. Bladder cell.
br. Branchial aperture.
ep. Band of thickened epithelium
connecting languets on dorsal
lamina.
h.m. Horizontal membrane of branchial
sac.

i. Intestine.
l. Dorsal languet.
m.f. Muscle fibres.
œ. Œsophagus.
p.ab. Post-abdomen.
p.c. Mass of pigment cells.
r. Rectum.

sg. Stigmata of branchial sac.
st. Stomach.
t.c. Test cells.
t.k. Terminal bulb on vessel in test.
t.m. Test matrix.
tr. Transverse vessel of branchial sac.
v. Vessel in test.

- Fig. 1. Colony of *Atopogaster gigantea*; one half natural size.
- Fig. 2. Part of surface of *Atopogaster gigantea*, showing systems; slightly enlarged.
- Fig. 3. Ascidiozoid of *Atopogaster gigantea*, from left side; magnified (S., 1 inch).
- Fig. 4. Part of branchial sac of *Atopogaster gigantea*; magnified (S., 1 inch).
- Fig. 5. Branchial siphon and lobes of *Atopogaster gigantea*; magnified (S., 1 inch).
- Fig. 6. Larva of *Atopogaster gigantea*; magnified (S., 1 inch).
- Fig. 7. Colony of *Atopogaster aurantiaca*; natural size.
- Fig. 8. Branchial siphon and lobes of *Atopogaster aurantiaca*; magnified (S., 1 inch).
- Fig. 9. Section of test of *Atopogaster aurantiaca*; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 10. Part of branchial sac of *Atopogaster aurantiaca*; magnified (S., 1 inch).
- Fig. 11. Part of dorsal lamina of *Atopogaster aurantiaca*, from the side, showing languets; magnified (S., 1 inch).
- Fig. 12. Part of dorsal lamina of *Atopogaster aurantiaca*, from the front, showing languets, &c.; magnified (S., 1 inch).
- Fig. 13. Larva of *Atopogaster aurantiaca*; magnified (S., 1 inch).