

PLATE XXIV.

Figs. 1–8. *Atopogaster elongata*, n. sp.

Figs. 9, 10. *Atopogaster elongata*, var. *pallida*, nov.

Figs. 11–15. *Atopogaster informis*, n. sp.

Figs. 16–20. *Morchellioides affinis*, n. sp.

ab. Abdomen of Ascidiozoid.
ar. Prolongation of branchial sac in post-abdomen.
at. Atrial aperture.
a.z. Ascidiozoid.
br. Branchial aperture.
br.l. Lobe of branchial aperture.
cæ. Cæcal thickening in wall of stomach.
cæl. Space in mesoderm of post-abdomen.

d.l. Dorsal lamina.
ec. Ectoderm.
end. Endoderm.
i. Intestine.
l. Languet.
mes. Mesoderm cells.
m.f. Muscle fibres.
æ. Œsophagus.
p.ab. Post-abdomen.
r. Rectum.

sg. Stigmata of branchial sac.
sph. Sphincter.
st. Stomach.
t. Test.
t.c. Test cells.
th. Thorax of Ascidiozoid.
t.k. Terminal bulb on vessel in test.
t.m. Test matrix.
tr. Transverse vessel of branchial sac.
v.ap. Vascular appendage.

- Fig. 1. Colony of *Atopogaster elongata*; natural size.
- Fig. 2. Another colony of *Atopogaster elongata*; natural size.
- Fig. 3. Another colony of *Atopogaster elongata*; natural size.
- Fig. 4. Ascidiozoid of *Atopogaster elongata*, seen from right side; magnified (S., 1 inch).
- Fig. 5. Part of test of *Atopogaster elongata*; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 6. Part of branchial sac of *Atopogaster elongata*; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 7. Diagram of alimentary canal of *Atopogaster elongata*; magnified (S., 1 inch, enlarged).
- Fig. 8. Transverse section of post-abdomen of *Atopogaster elongata*; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 9. Colony of *Atopogaster elongata*, var. *pallida*; natural size.
- Fig. 10. Part of section of test of *Atopogaster elongata*, var. *pallida*; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 11. Part of section of colony of *Atopogaster informis*; natural size.
- Fig. 12. Part of branchial sac of *Atopogaster informis*; magnified (S., 1 inch).
- Fig. 13. Part of another branchial sac of *Atopogaster informis*; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 14. Part of dorsal lamina of *Atopogaster informis*, seen from the side; magnified (S., 1 inch).
- Fig. 15. Larva of *Atopogaster informis*; magnified (S., 1 inch).
- Fig. 16. Colony of *Morchellioides affinis*; natural size.
- Fig. 17. Section through test of *Morchellioides affinis*, showing end of post-abdomen of Ascidiozoid and branched vascular appendages ending in bulbs; magnified (S., 1 inch).
- Fig. 18. Part of branchial sac of *Morchellioides affinis*, showing a transverse vessel branching; magnified (S., 1 inch).
- Fig. 19. Branchial aperture of Ascidiozoid of *Morchellioides affinis*, from above, showing eight lobes; magnified (S., 1 inch).
- Fig. 20. Stomach of Ascidiozoid of *Morchellioides affinis*, showing irregular thickening of walls; magnified (S., 1 inch).