

PLATE XXXII.

Figs. 1-5. *Psammaphidium spongiforme*, n. sp.

Figs. 6, 7. *Psammaphidium effrenatum*, n. sp.

Figs. 8-10. *Psammaphidium retiforme*, n. sp.

Figs. 11-13. *Psammaphidium flavum*, n. sp.

*a.* Anus.  
*ab.* Abdomen.  
*at.* Atrial aperture.  
*br.* Branchial aperture.  
*br.l.* Branchial lobe.  
*en.* Endostyle.  
*i.* Intestine.

*m.* Mantle.  
*m.b.* Muscle band in mantle.  
*œ.* Œsophagus.  
*p.ab.* Post-abdomen.  
*r.* Rectum.  
*sg.* Stigmata of branchial sac.

*st.* Stomach.  
*t.c'.* Modified test cells.  
*t.f.* Fibrous band in the test.  
*t.m.* Test matrix.  
*tr.* Transverse vessel of branchial sac.  
*t.v.* Spermatic vesicles.

- Fig. 1. Large colony of *Psammaphidium spongiforme*; natural size.
- Fig. 2. Ascidiozoid of *Psammaphidium spongiforme*, seen from right side; magnified (S., 1 inch).
- Fig. 3. Part of branchial sac of *Psammaphidium spongiforme*, with unusually large stigmata; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 4. Part of another branchial sac of *Psammaphidium spongiforme*, showing stigmata of the ordinary size; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 5. Alimentary canal and post-abdomen of *Psammaphidium spongiforme*; magnified (S., 1 inch, enlarged).
- Fig. 6. Colony of *Psammaphidium effrenatum*; natural size.
- Fig. 7. Part of mantle of *Psammaphidium effrenatum*; magnified (S., 1 inch).
- Fig. 8. Colony of *Psammaphidium retiforme*; natural size.
- Fig. 9. Part of branchial sac of *Psammaphidium retiforme*; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 10. Branchial siphon and lobes of *Psammaphidium retiforme*; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 11. Colony of *Psammaphidium flavum*; natural size.
- Fig. 12. Part of surface layer of test seen from interior; magnified (S., 1 inch).
- Fig. 13. Small portion of surface layer of test seen in section, showing the fibrous bands of test matrix which separate the masses of modified test cells; highly magnified (S.,  $\frac{1}{8}$  inch).