PLATE XLIX.

PAGE

Fig.	1.	Raspailia tenuis, transverse section of axis (a) and tissues immediately surrounding it; g., granular cells, seen in transverse section; c., globular cells of unknown function; × 190,
Fig.	2.	Axinella (?) paradoxa, portion of section of choanosome; i.c., inhalent channels; f.c., flagellated chambers; e.c., exhalent channels; m.c., mesodermal cells; × 290,
Fig.	3.	Phakellia ventilabrum, var. connexiva, section through a frond, taken at right angles to the surface; o., oscula; d.m., dermal membrane; p., pores; i.c., large inhalent canals, or subdermal cavities; e.c., exhalent canals; f.c., flagellated chambers; × 18, xxx, xli, xliii, xlv
Fig.	4.	Cladorhiza (?) tridentata, radial, vertical section through one of the marginal, globular bodies (g.b.); gl., glandular organs; s., jelly-like secretion (?); ch., choanosome; × 44,
		 Fig. 4a. Small portion of section through the interior of a globular body, showing the irregularly shaped cells (c.), lying in the jelly-like matrix; × 284. Fig. 4b. Section through one of the cup-shaped, glandular organs; g.c., the individual cells (or nuclei of the cells) of which it is composed; × 284.

The spicules are printed in blue.