PLATE XLVIII.

Fig. 1. Esperella lapidiformis, portion of section of embryo; a., portion of the main mass; c., cap of large, nucleated cells; n., nuclei; m., investing membrane; × 190,

> Fig. 2a. Portion of the surface of the sponge, showing the crack-like pore-areas, p.a.; the pore-bearing dermal membrane has been removed at p.a'., showing the openings of the inhalent canals (i.c.) in the floor of the elongated subdermal cavities (s.c.); × 2.

- Fig. 2b. Portion of the dermal membrane from a pore-area; p., the pores; f., the bands of fibrous (muscular) tissue; n., the nuclei of the epidermic cells; n'., the nuclei of the fibrous cells; × 180.
- Fig. 2c. Portion of a section like that represented in Fig. 2, more highly magnified; comprising only the ectosome surrounding an inhalent canal (*i.c.*); c., darkly staining, amœboid (?) cells, lying in the gelatinous ground-tissue; t., tricho-dragmata; w., walls of the inhalent canal; s., sigmata, projecting into the lumen of the inhalent canal; x 190.
- Fig. 2d. Portion of section of the choanosome; f.c., flagellated chambers; c., mesodermal cells; e., epithelial cells lining the canals; × 190.

The spicules are printed in blue.

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