

E. Ectoderm here containing very few nematocysts but numerous nuclei.

T, T. Tentacles in section.

Fig. 2. Section transverse to the longitudinal axis of a large dactylozoid of *Sporadopora dichotoma*.

B. Body cavity of the zoid.

L. Endoderm consisting of a double layer of large transparent nucleated cells with smaller cells on its inner aspect.

M. Muscular layer and basement membrane showing a series of stout isolated fibres.

E. Ectoderm. This forms a thick layer which contains numerous nuclei and developing nematocysts, and at its outer surface is protected by a continuous layer, one cell deep, of nematocysts of the smaller form.

Fig. 3. Section parallel to the surface of the soft tissues of *Sporadopora dichotoma* taken at a very slight depth just beneath the superficial layer of the ectoderm. The soft structures about the mouths of the sacs of a gastrozoid and a contiguous dactylozoid are shown, and the radiate arrangement of the cœnosarcal tubes around the sac openings.

G Z. Lumen of the upper part of the sac of a gastrozoid.

R M. Wall of the sac containing radially disposed fusiform muscular elements which are prolonged outwards on to the radial offsets of the cœnosarc. The wall of the sac is lined internally by small rounded cells.

R, R. Radially disposed offsets of the cœnosarcal meshwork which pass inwards to join the outer surface of the sac all round.

A, A. Slips of fine transparent membrane containing nuclei attached to the radial offsets.

X, X. Inter-radial spaces.

D Z. Lumen of the sac of a dactylozoid with somewhat similar arrangement to that in the case of the gastrozoid.

N, N. Nematophores. Closely packed batteries of the larger form of nematocysts, which are here seen in transverse section.

Fig. 4. Tentacle of a gastrozoid of *Sporadopora dichotoma*, from a sketch made of the animal in the fresh condition.

K. Elongate knob-like tip of the tentacle thickly beset with nematocysts of the smaller form.

E. Ectoderm.

Tr. "Apparent septa."

C. Axial cavity of the tentacle.