

Ankara University, Faculty of Agriculture , Department of Fisheries and
Aquaculture, Programme of Fisheries and Aquaculture

AQS421: Aquatic Invertebrates

Reference: Brusca, R. C., & Brusca, G. J. **Invertebrates**. 2003.
Sunderland, MA: Sinauer Associates, 2.

AQS421: Aquatic Invertebrates

Week 1:

- Introduction

Week 2:

- Classification, Systematics and Phylogeny

Week 3:

- Animal Architecture and the Bauplan Concept

Week 4:

- Animal Development, Life Histories, and Origins

Week 5:

- The Protists

Week 6:

- Phylum Porifera: The Sponges
- Phylum Cnidaria

Week 7:

- Phylum Ctenophora: The Comb Jellies
- Phylum: Platyhelminthes

Week 8:

- Phylum Nemertea: The Ribbon Worms
- Blastocoelomates and Other Phyla

Week 9:

- Phylum Annelida: The Segmented Worms
- Sipuncula and Echiura

Week 10:

- The Emergence of the Arthropods: Onychophorans, Tardigrades, Trilobites, and the Arthropod Bauplan

Week 11:

- Phylum Arthropoda: The Crustacea

Week 12:

- Phylum Mollusca

Week 13:

- Lophophorates
- Phylum Echinodermata

Week 14:

- Other Deuterostomes
- Perspectives on Invertebrate Phylogeny

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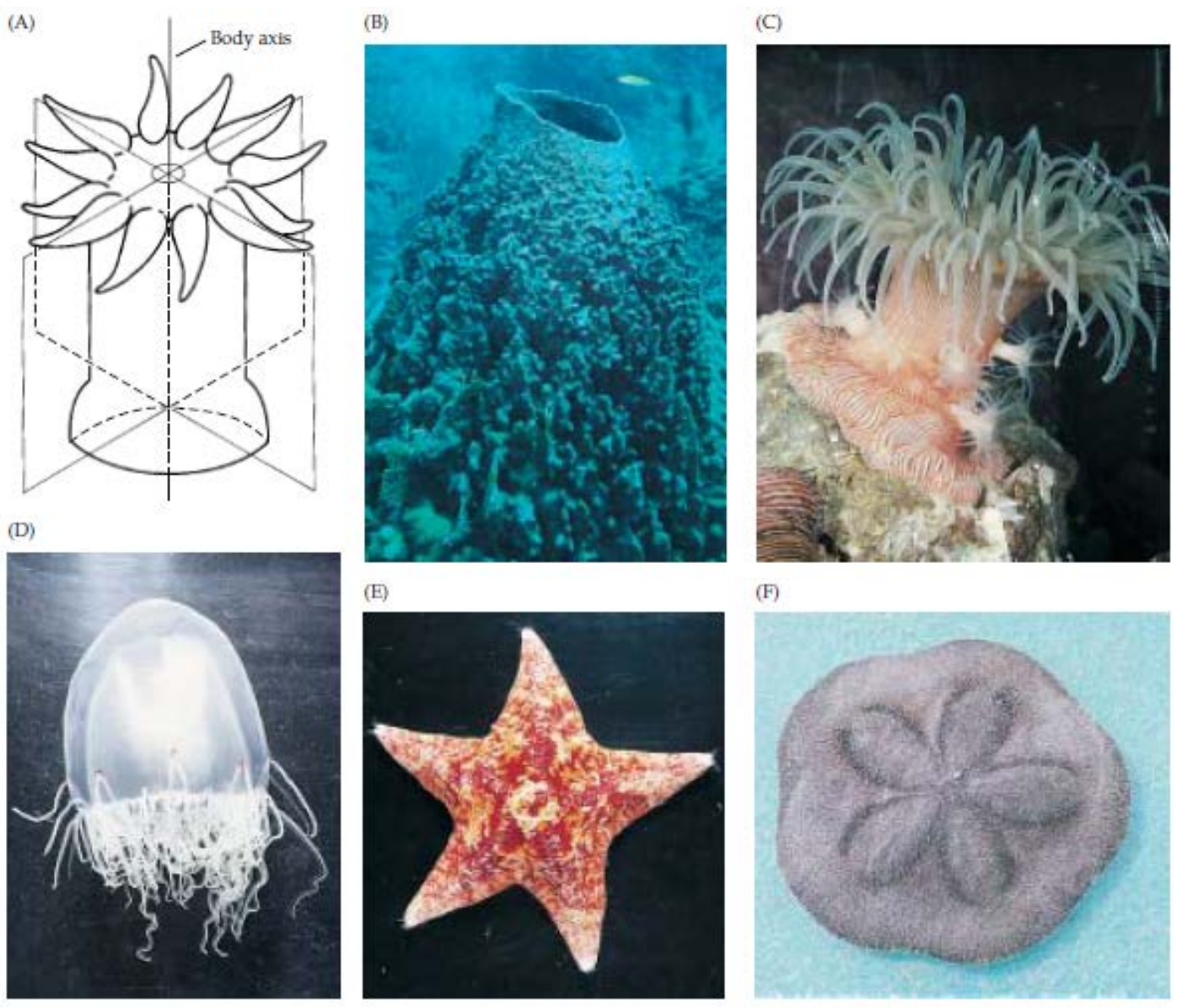
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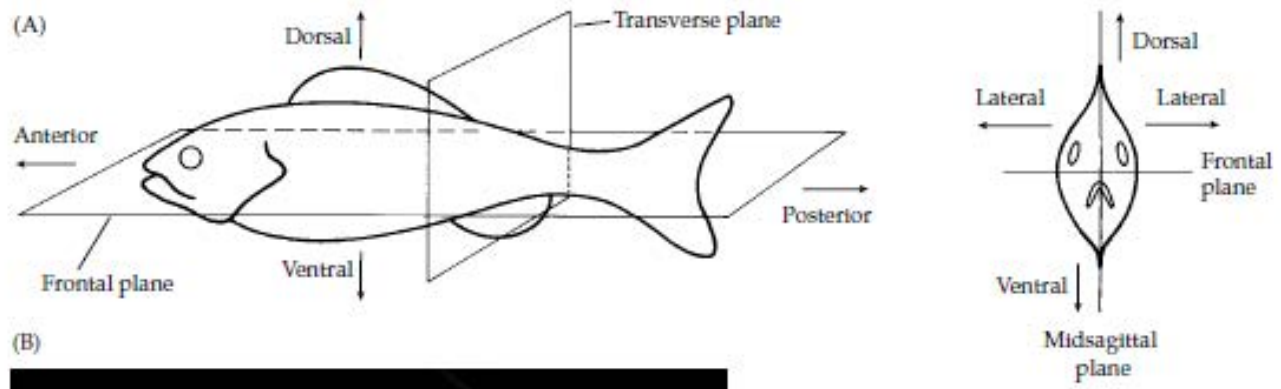
Animal Architecture and the Bauplan Concept

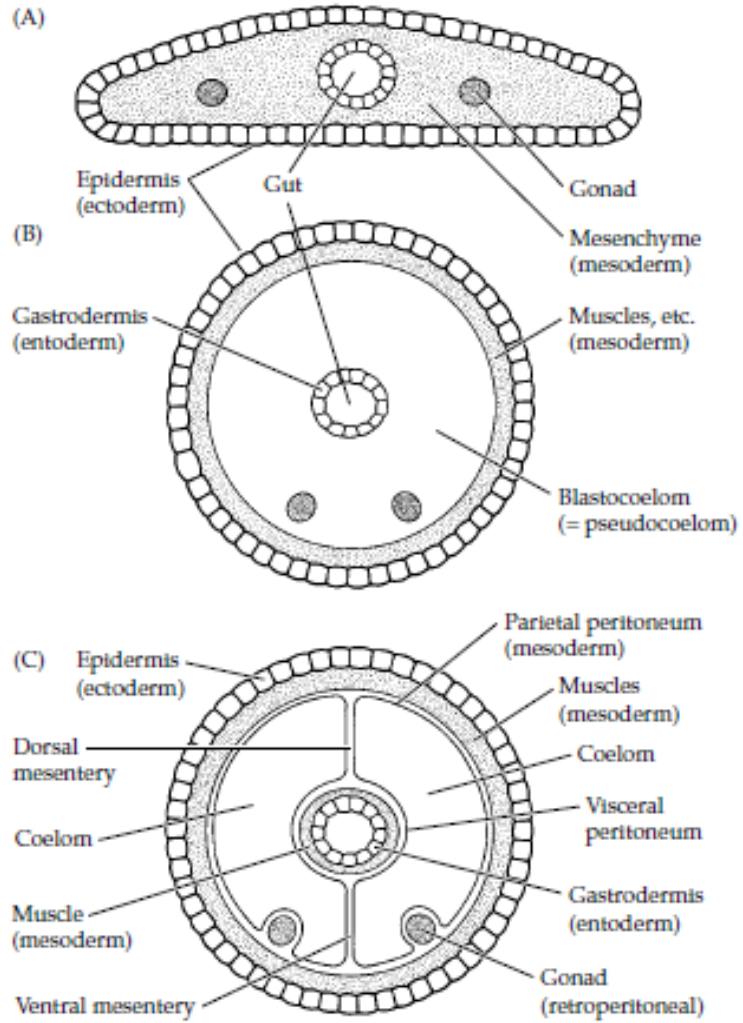
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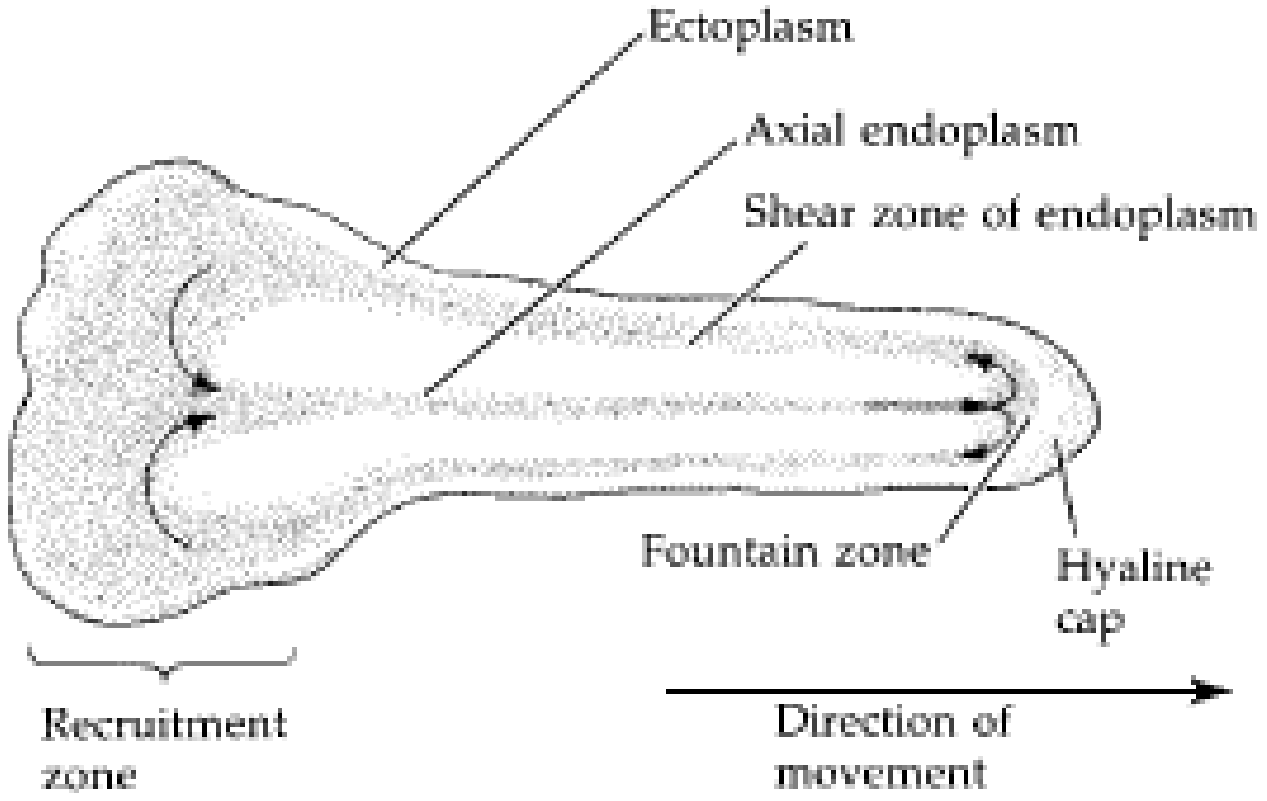


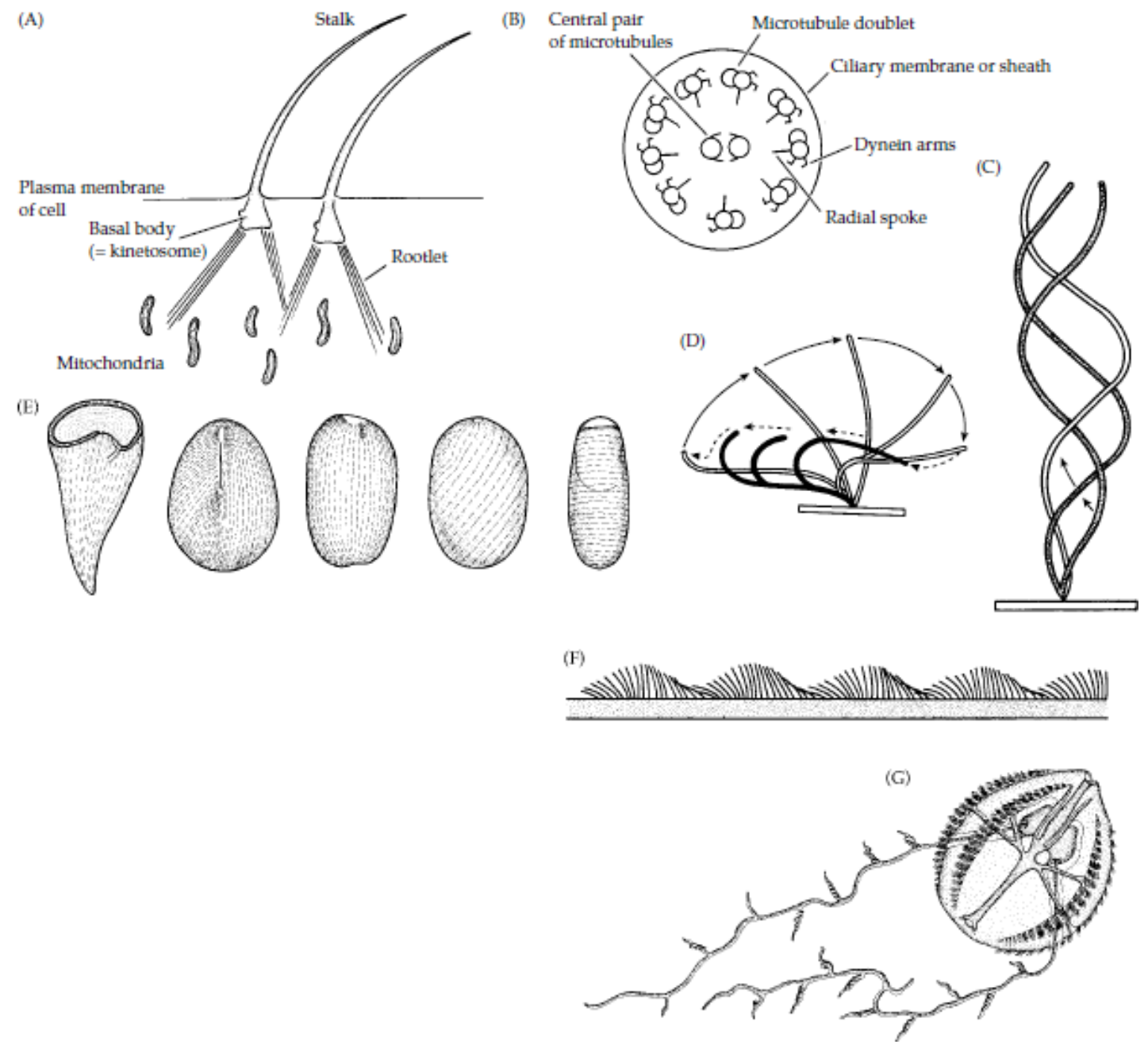
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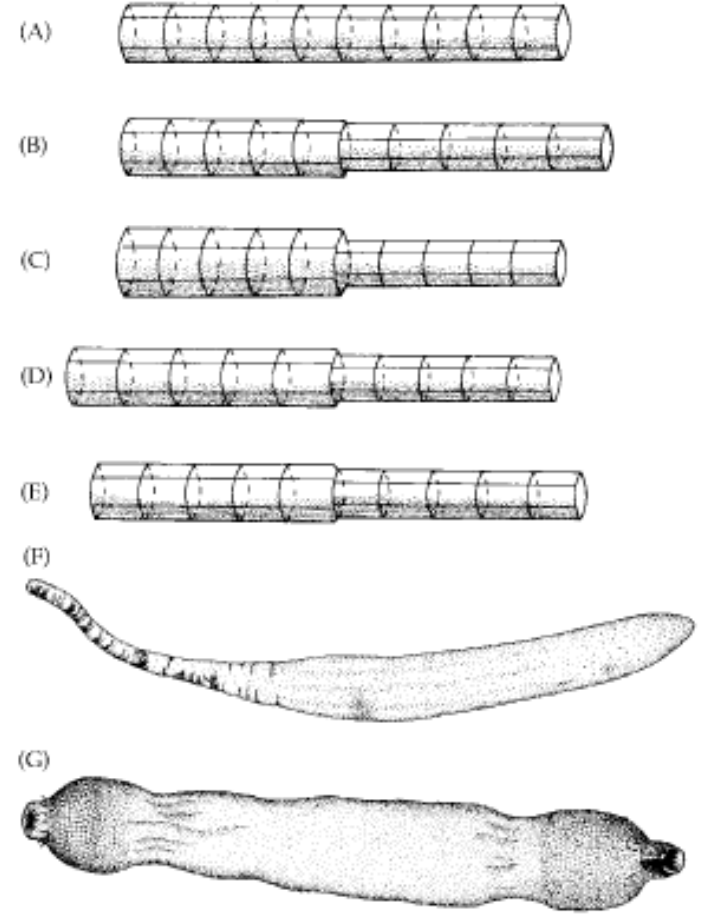




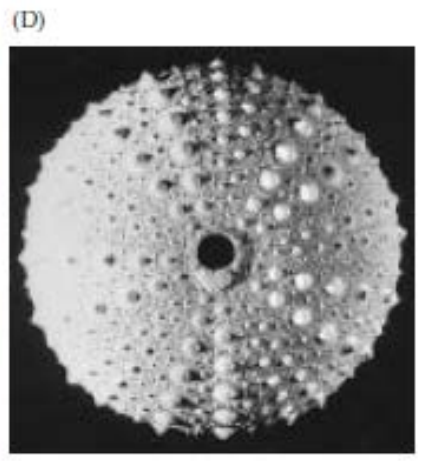
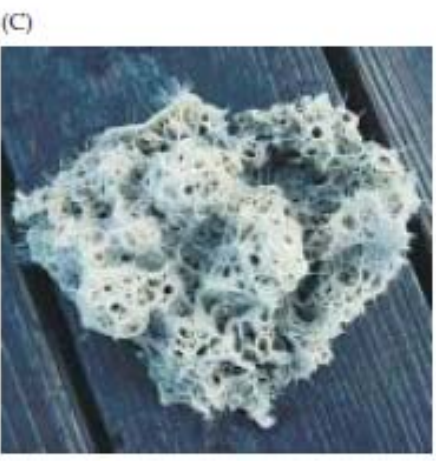
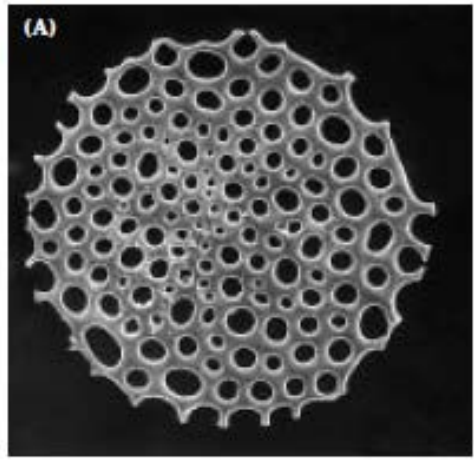




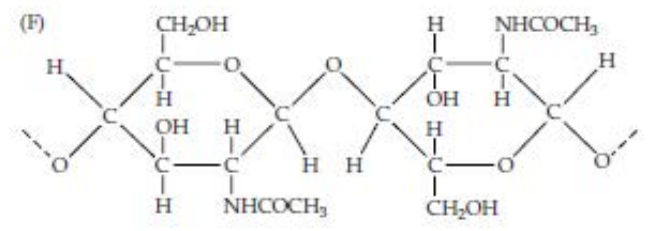
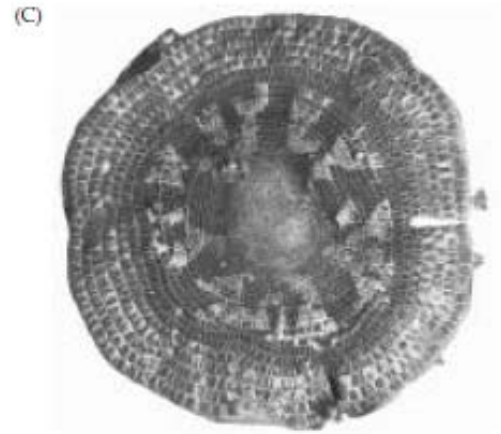
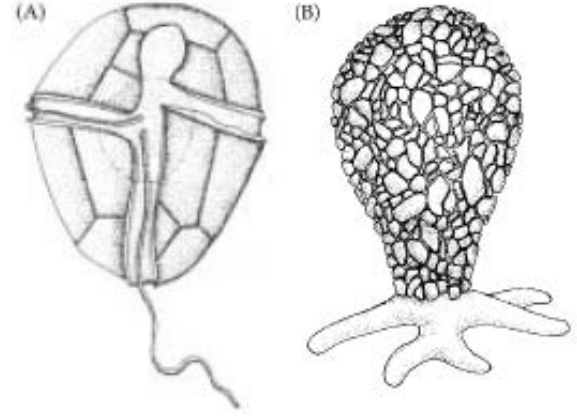
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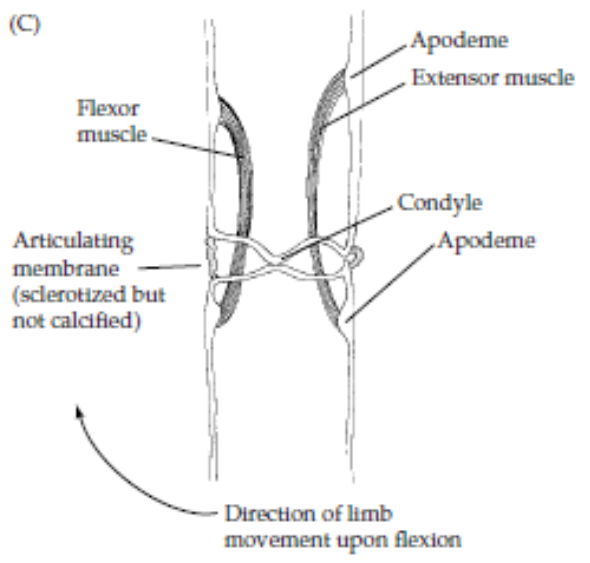
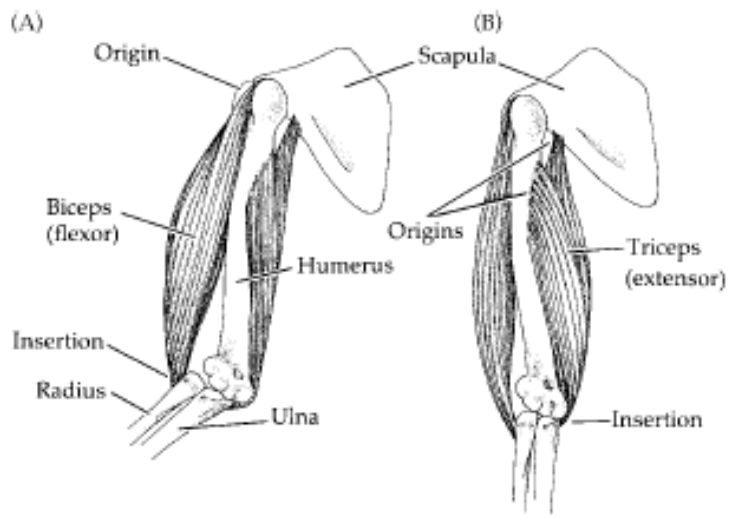


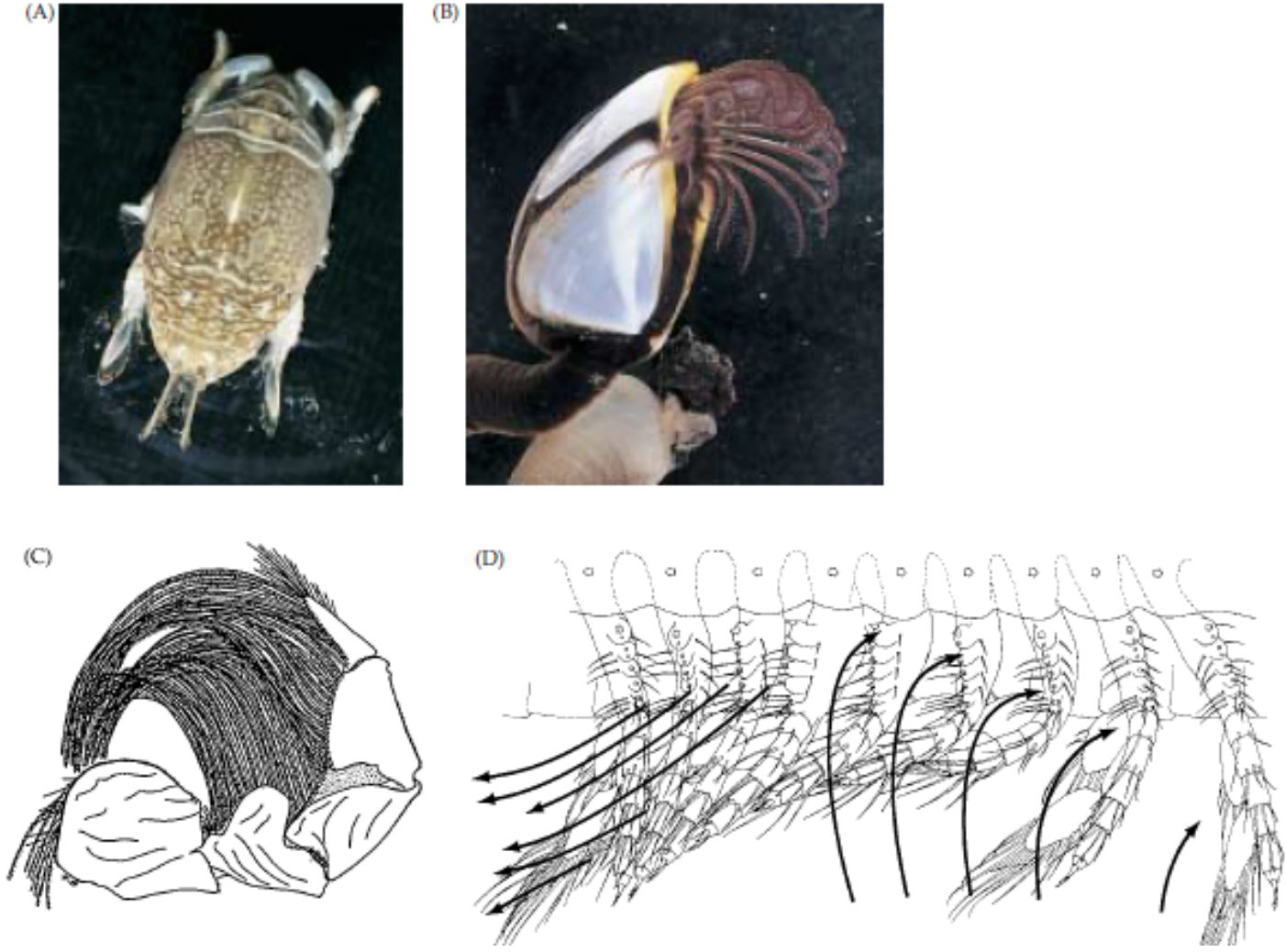
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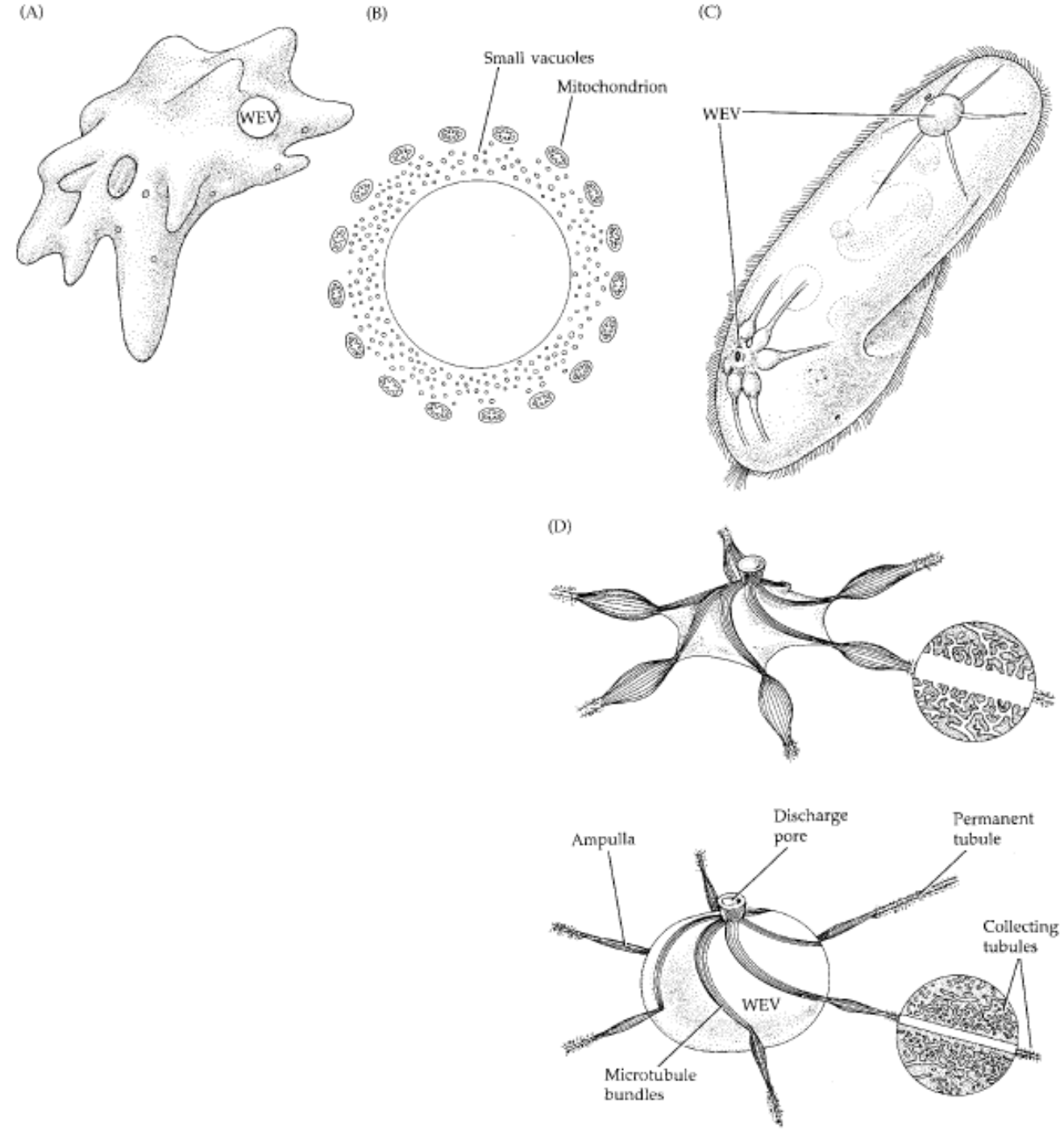


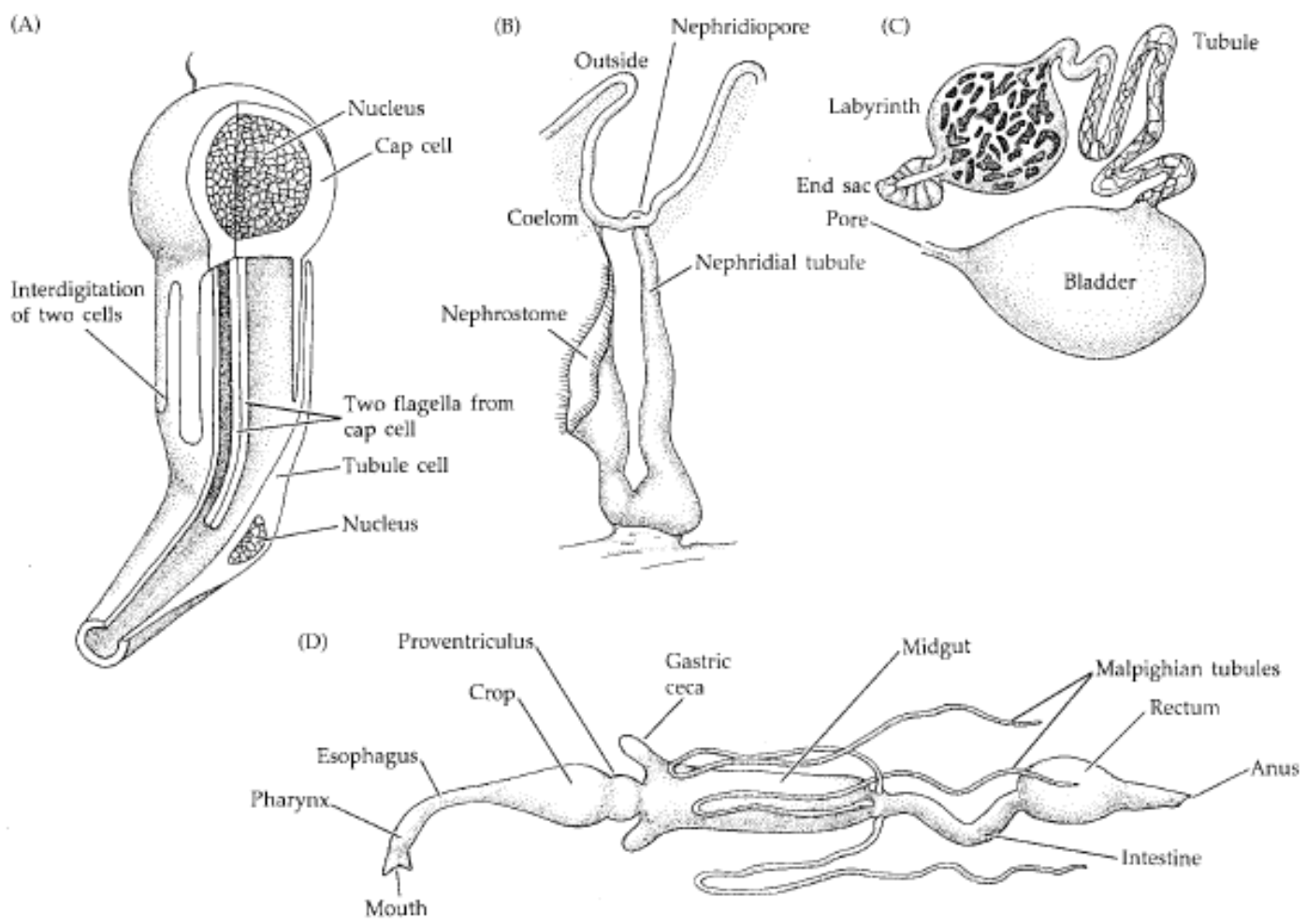
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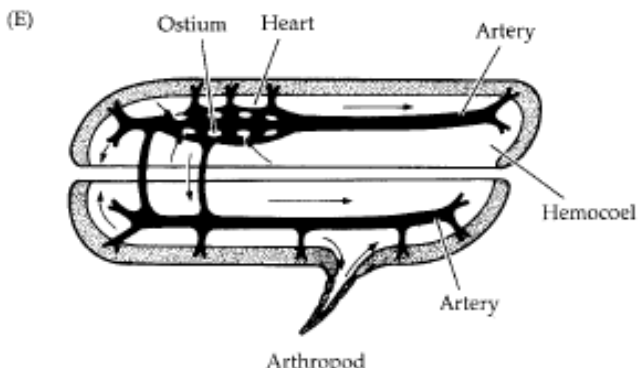
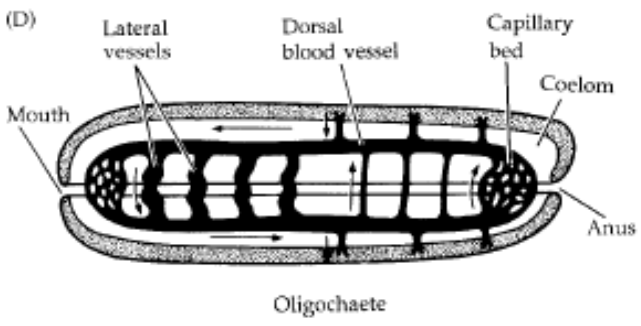
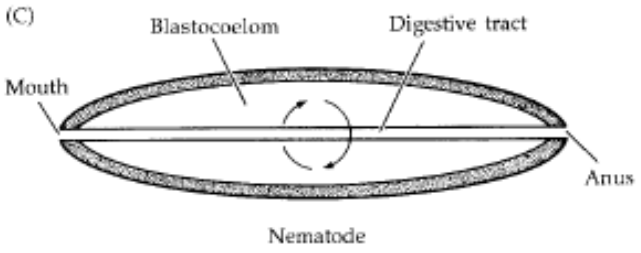
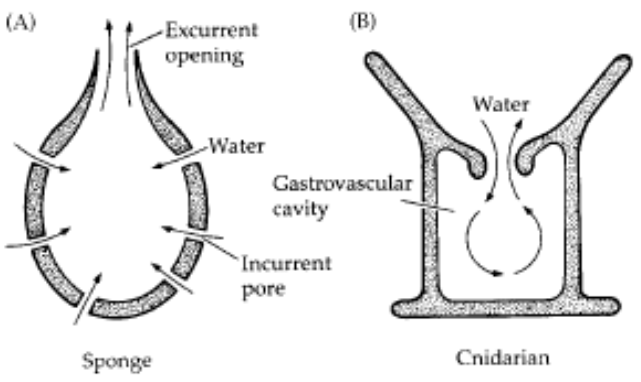


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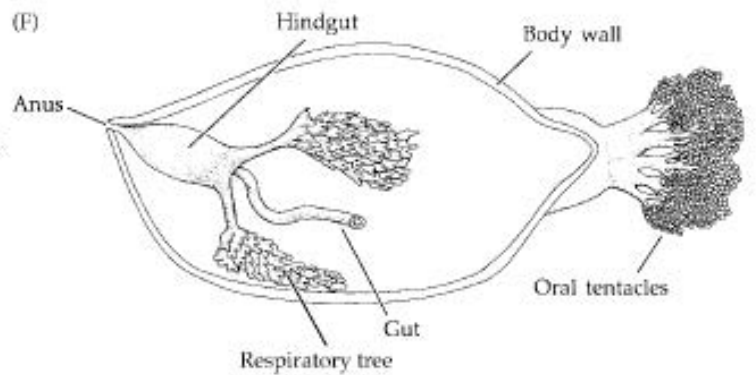
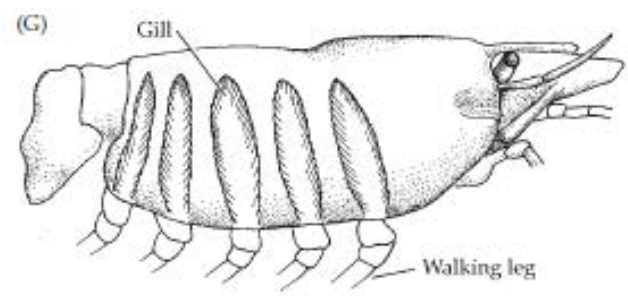
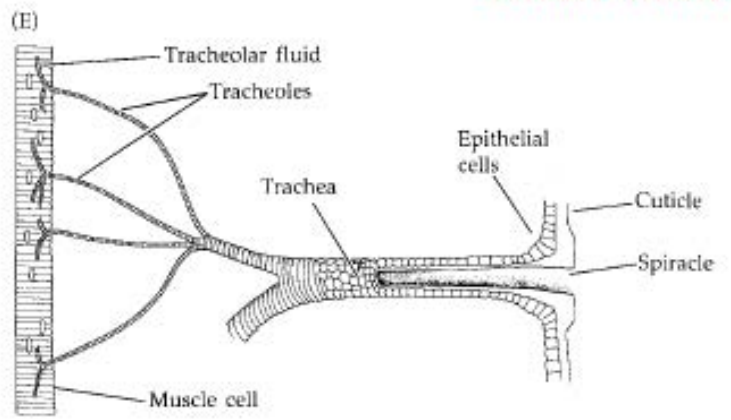
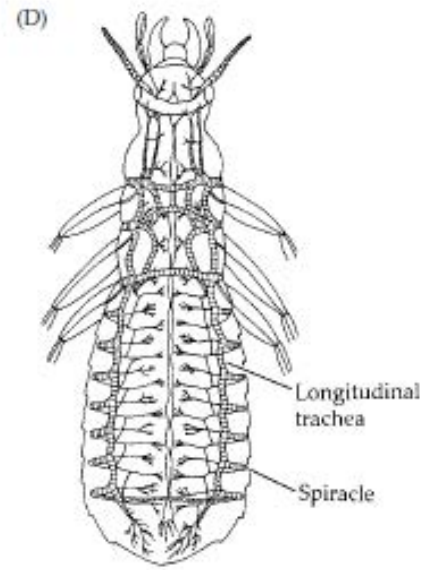


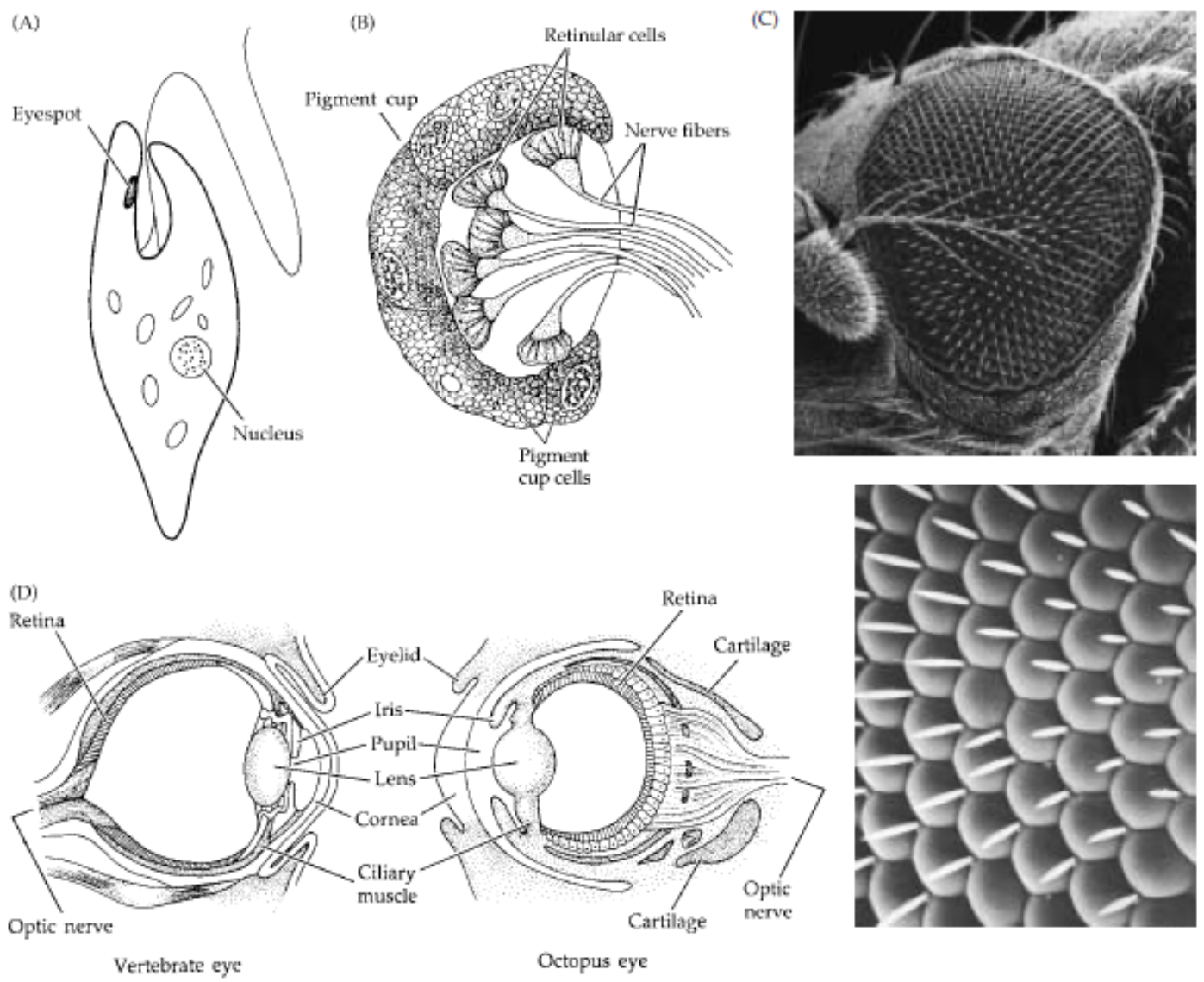






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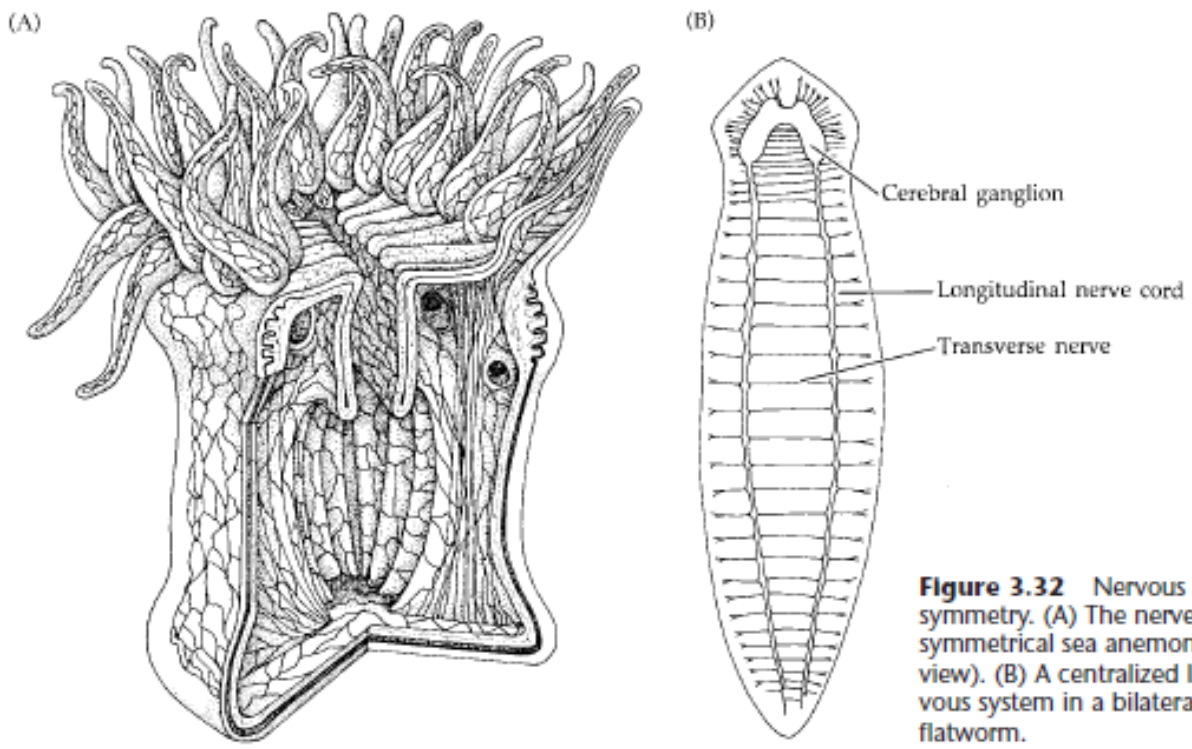


Figure 3.32 Nervous systems and symmetry. (A) The nerve net in a radially symmetrical sea anemone (cutaway view). (B) A centralized ladder-like nervous system in a bilaterally symmetrical flatworm.