

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: <ul style="list-style-type: none">Introduction	Week 8: <ul style="list-style-type: none">Phylum Nemertea: The Ribbon WormsBlastocoelomates and Other Phyla
Week 2: <ul style="list-style-type: none">Classification, Systematics and Phylogeny	Week 9: <ul style="list-style-type: none">Phylum Annelida: The Segmented WormsSipuncula and Echiura
Week 3: <ul style="list-style-type: none">Animal Architecture and the Bauplan Concept	Week 10: <ul style="list-style-type: none">The Emergence of the Arthropods: Onychophorans, Tardigrades, Trilobites, and the Arthropod Bauplan
Week 4: <ul style="list-style-type: none">Animal Development, Life Histories, and Origins	Week 11: <ul style="list-style-type: none">Phylum Arthropoda: The Crustacea
Week 5: <ul style="list-style-type: none">The Protists	Week 12: <ul style="list-style-type: none">Phylum Mollusca
Week 6: <ul style="list-style-type: none">Phylum Porifera: The SpongesPhylum Cnidaria	Week 13: <ul style="list-style-type: none">LophophoratesPhylum Echinodermata
Week 7: <ul style="list-style-type: none">Phylum Ctenophora: The Comb JelliesPhylum: Platyhelminthes	Week 14: <ul style="list-style-type: none">Other DeuterostomesPerspectives on Invertebrate Phylogeny

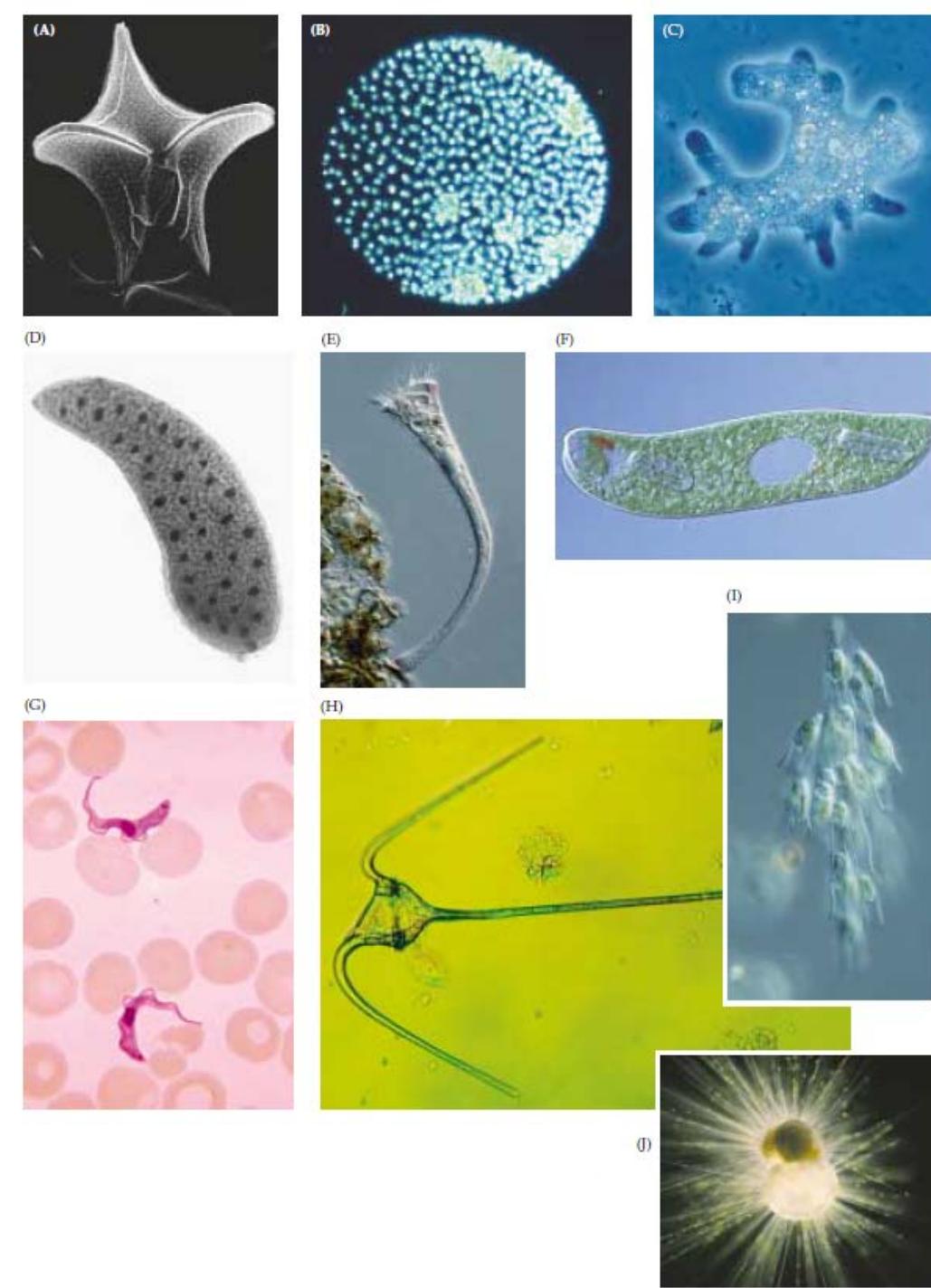
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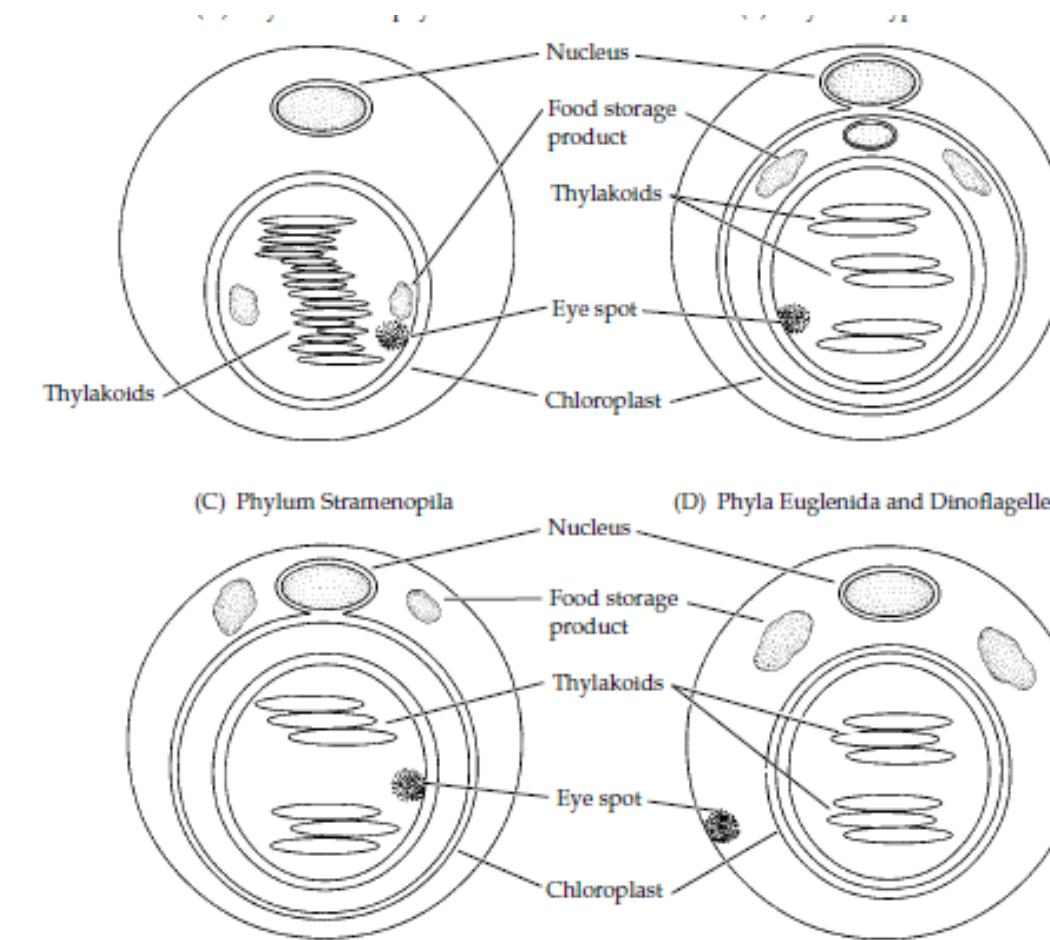
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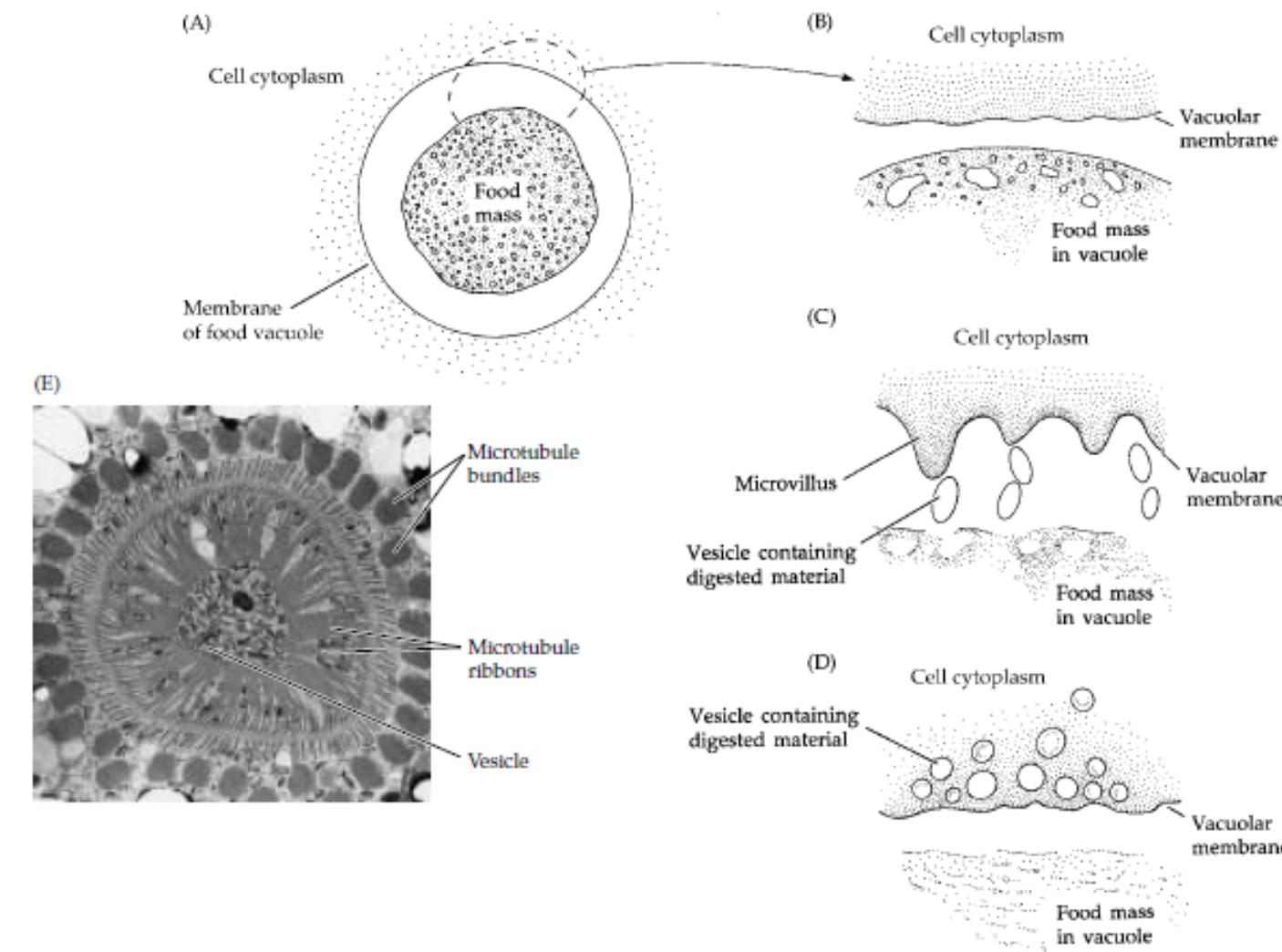
5. Week:

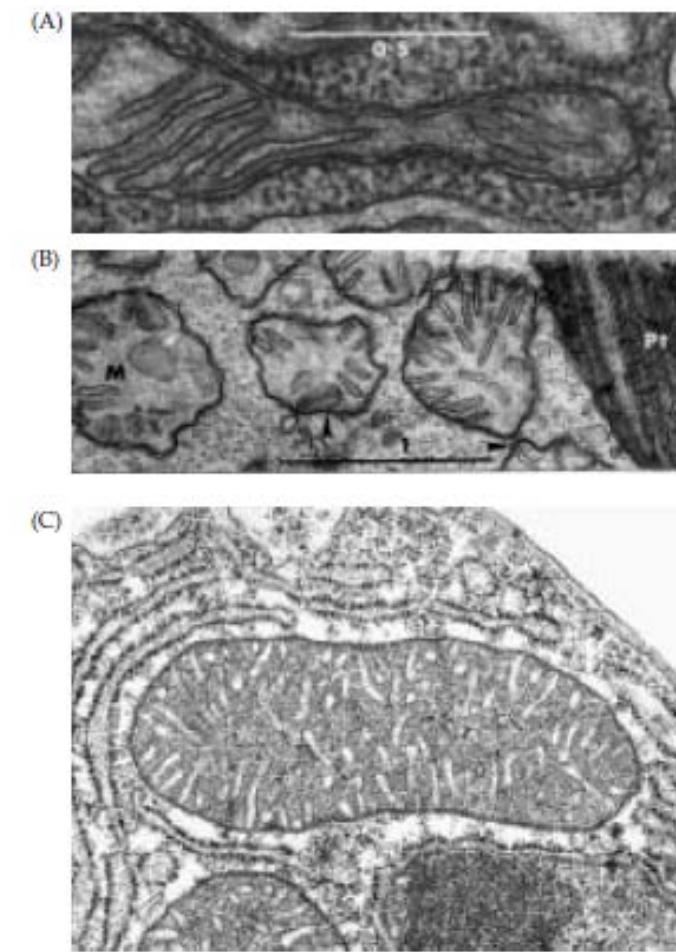
The Protists

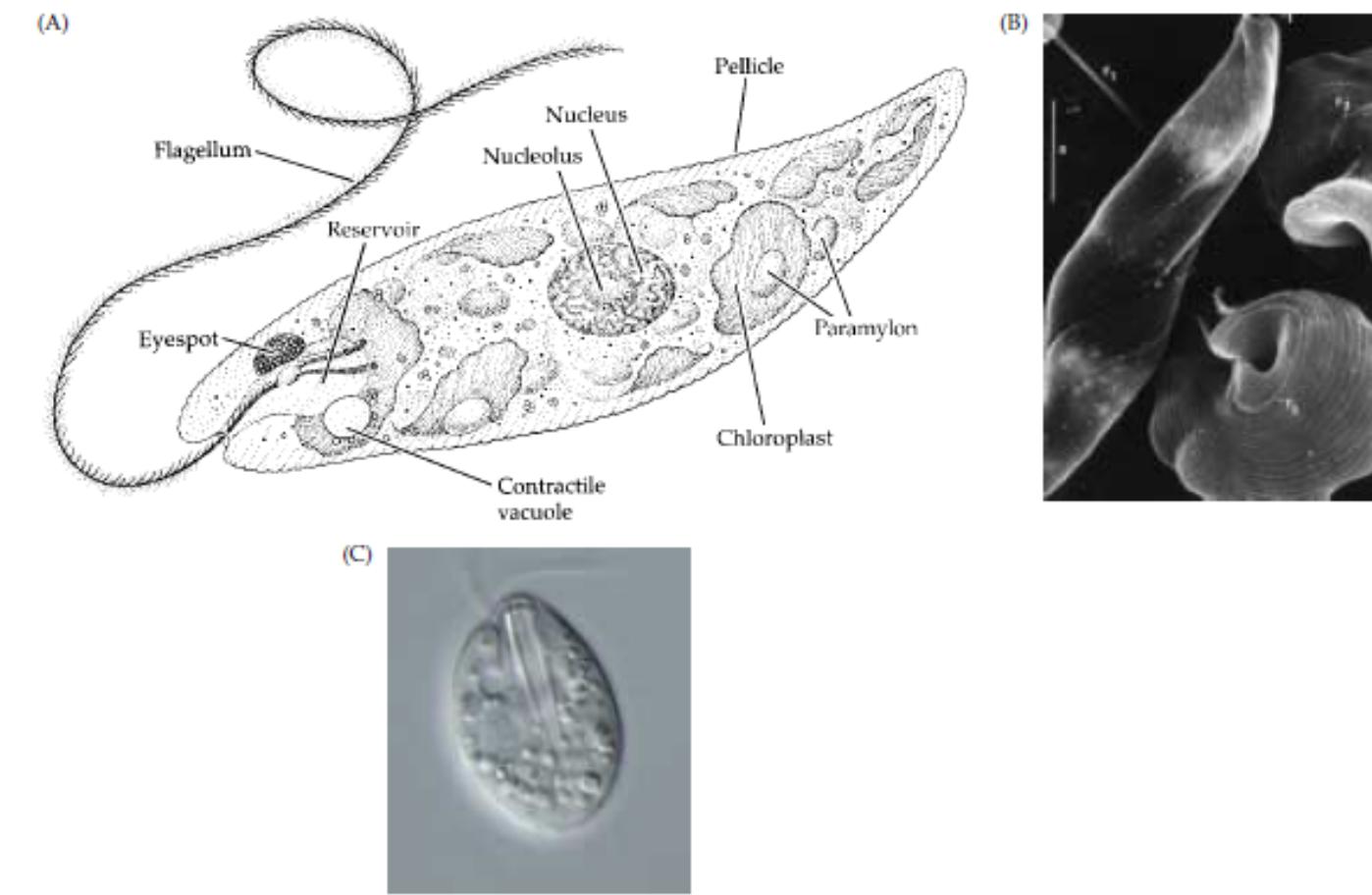
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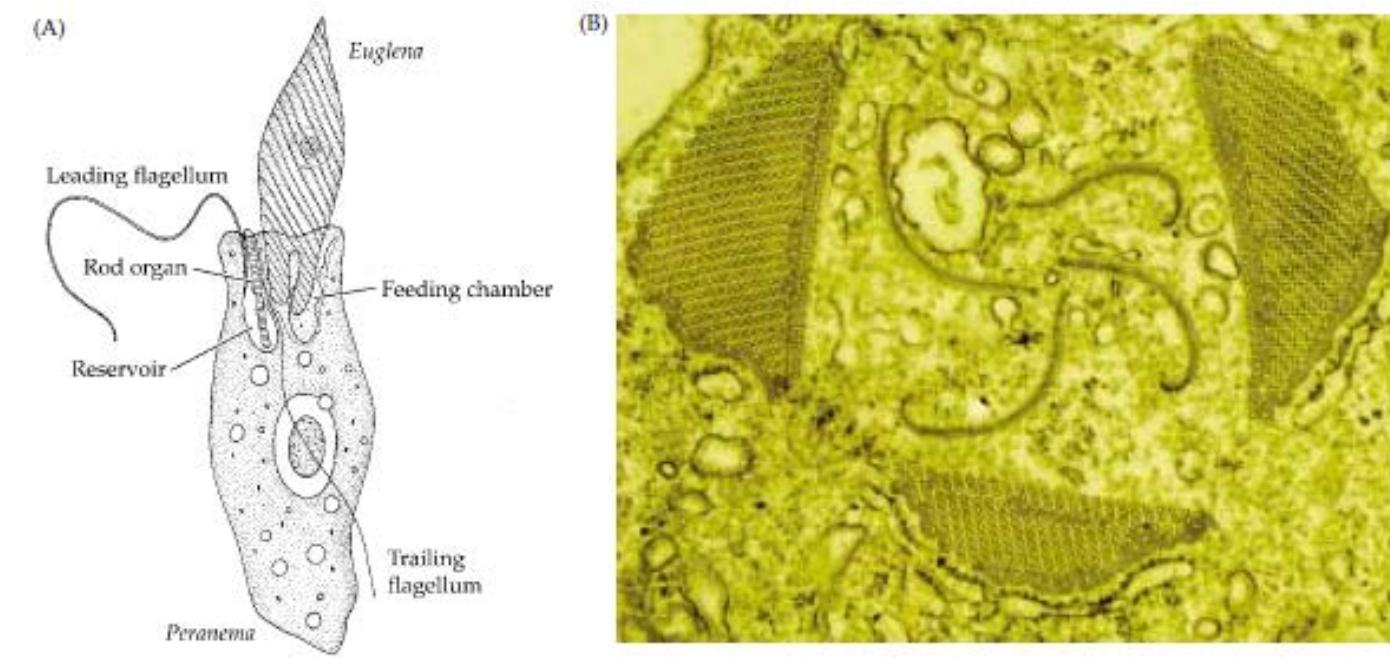


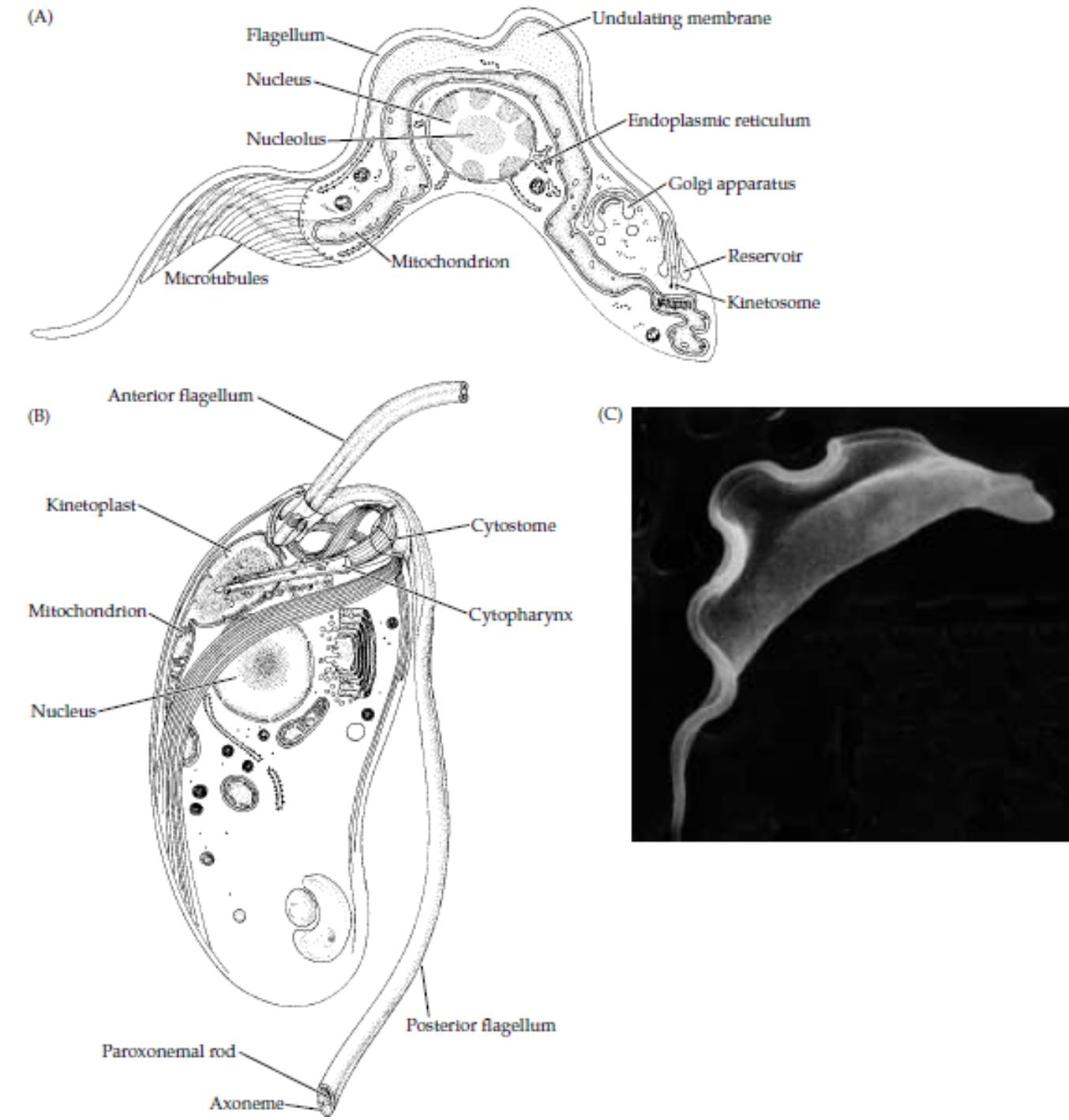


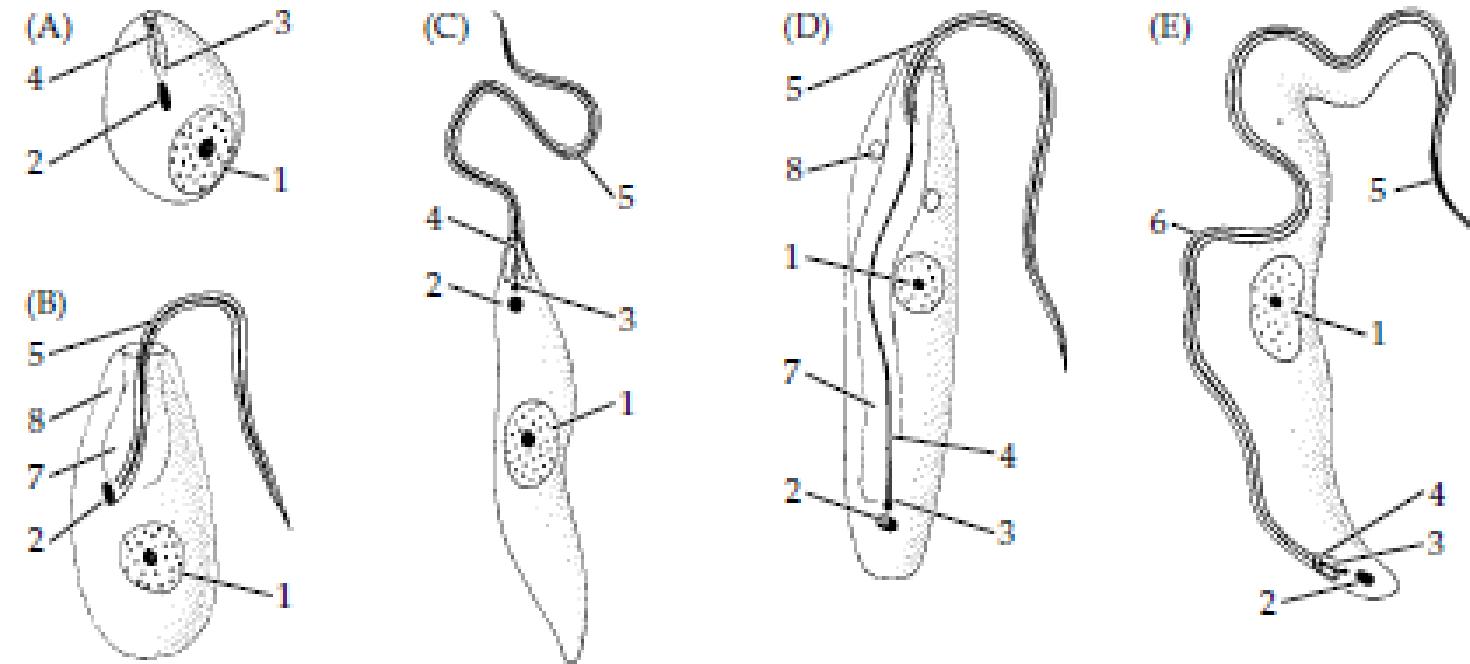






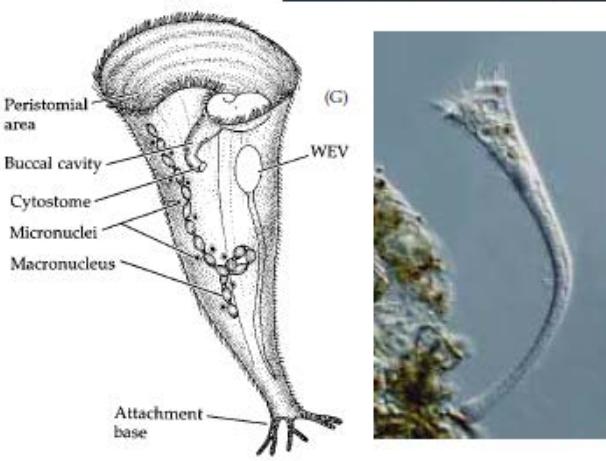
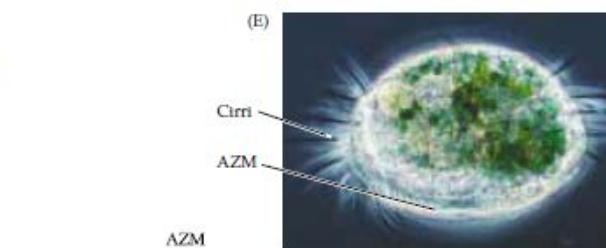
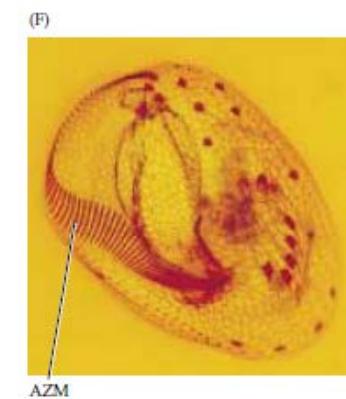
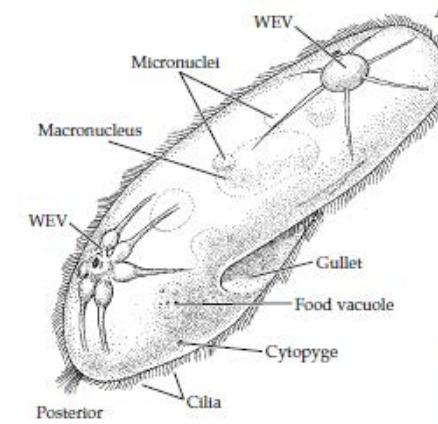


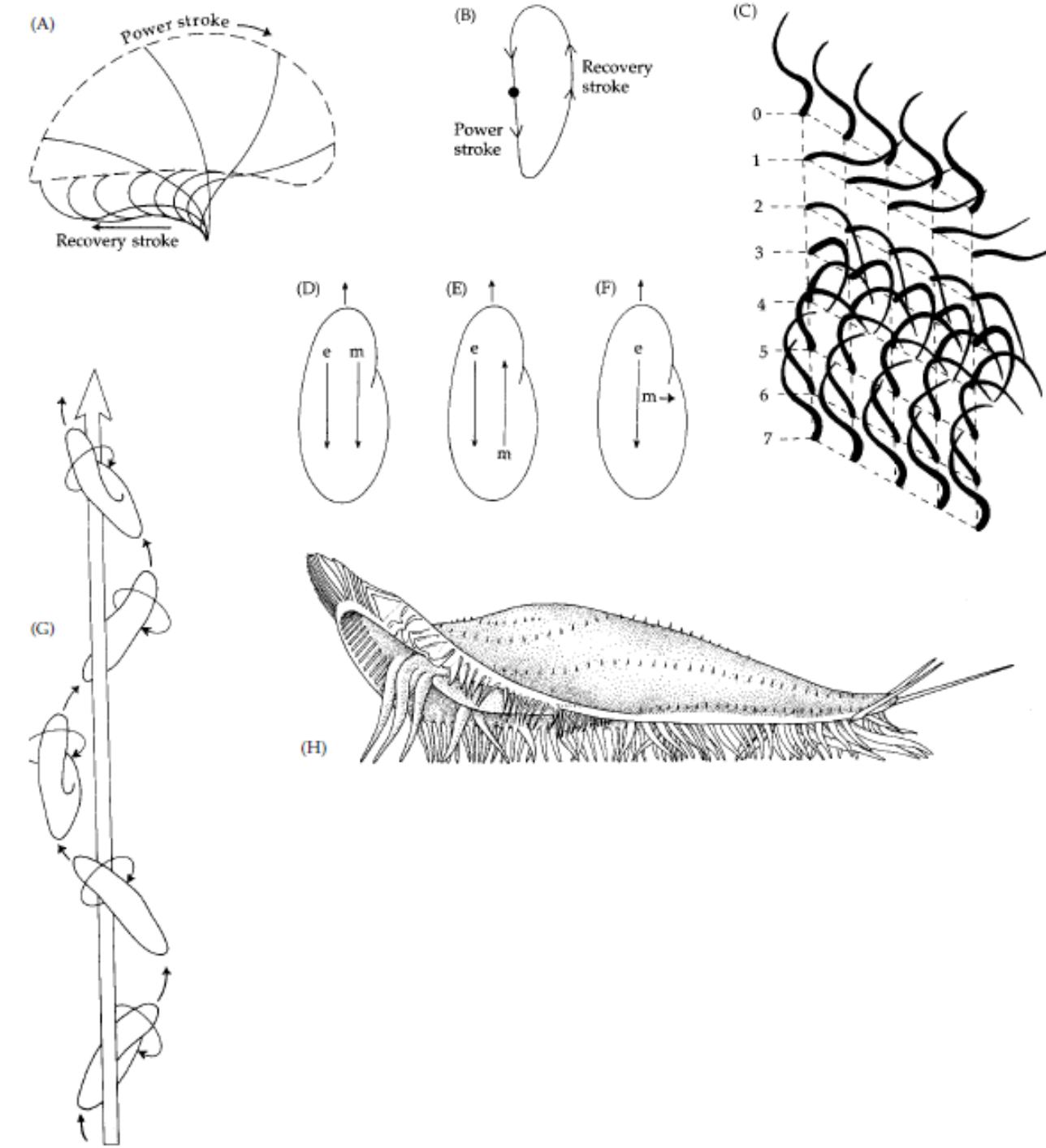


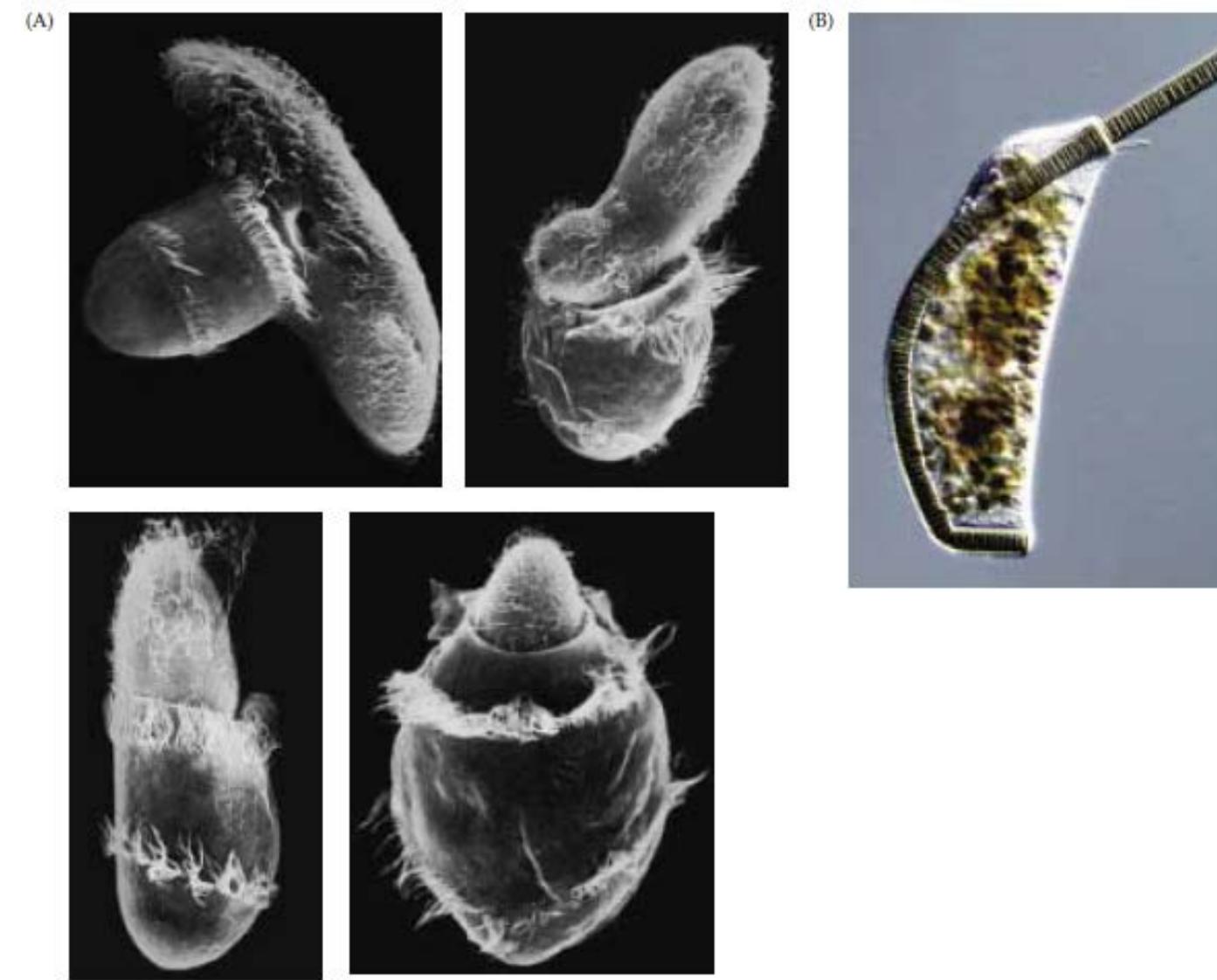


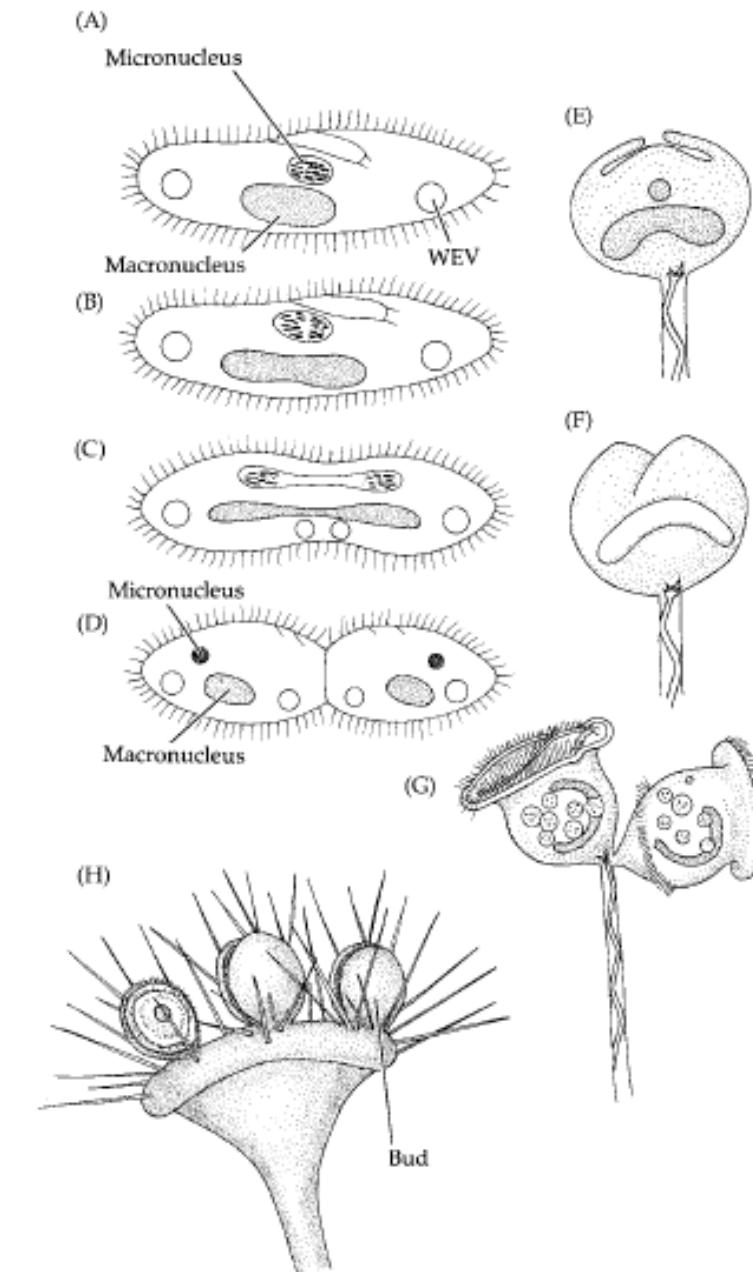
Structures

- 1 Nucleus
- 2 Kinetoplast
- 3 Kinetosome
- 4 Axoneme
- 5 Flagellum
- 6 Undulating membrane
- 7 Flagellar pocket
- 8 Water expulsion vesicle









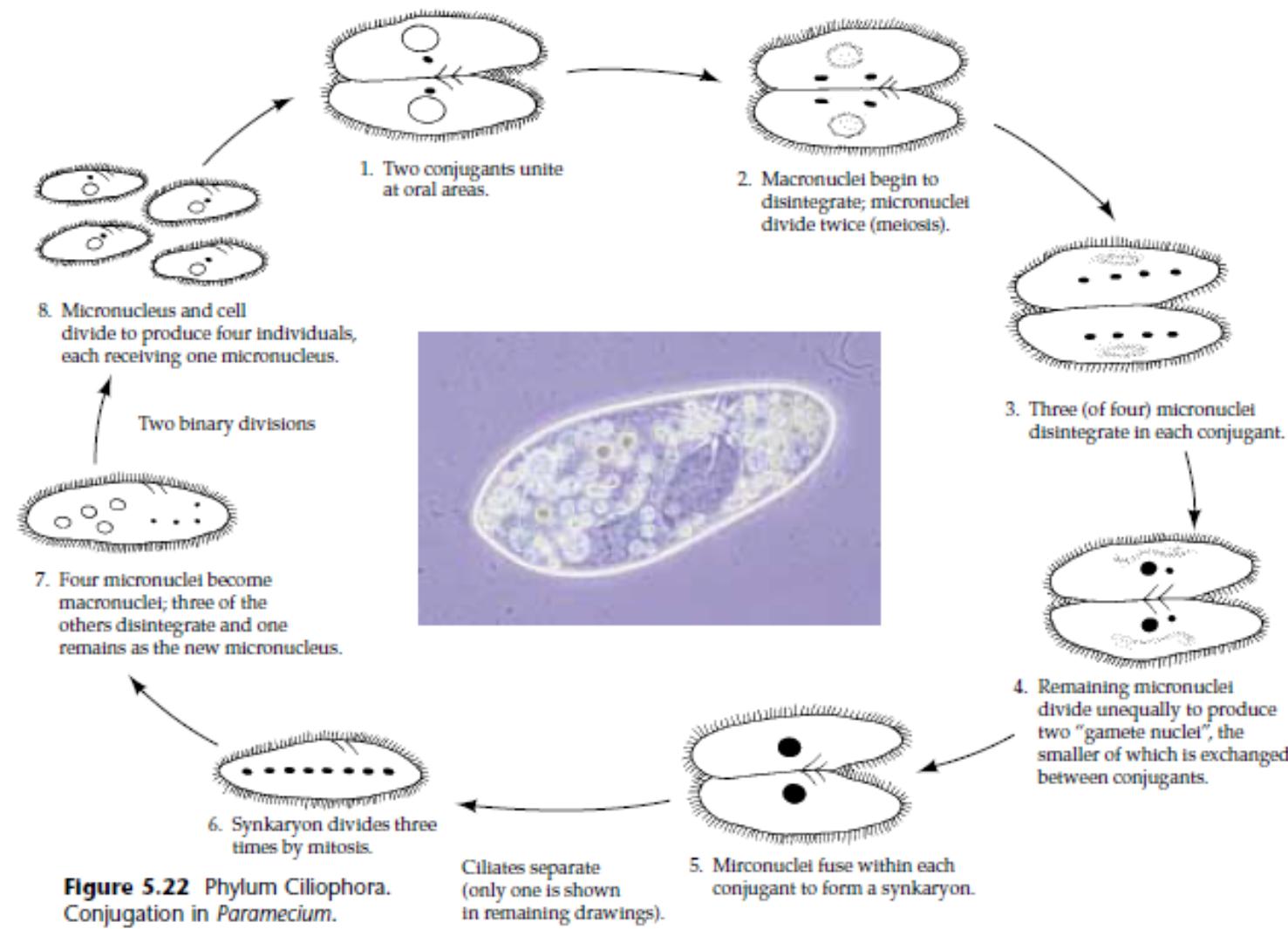


Figure 5.22 Phylum Ciliophora. Conjugation in *Paramecium*.

