

## Biology

### Classification information

Organism (common name): paramecium

Name \_\_\_\_\_

Kingdom: Protista

Order:

Species:

Phylum: Protozoan

Family:

Class: Ciliophora

Genus:

Scientific name:

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1. **Special description:** ciliates, trichocysts release filaments when stimulated, Most nonpathogenic, Stentor- 2.5 millimeters, “giant,” Balantidium coli: dysentery
2. **Habitat:** aquatic (fresh and marine)
3. **Symmetry/shape:** Unicellular, cone, bell, slipper, up to 3 millimeters
4. **Organization:** Unicellular; ectoplasm and endoplasm, macro- and micro-nuclei, contractile vacuoles with canals (water regulation)
5. **Integument:** unicellular, membrane, cortex
6. **Skeleton:** Unicellular, N/A
7. **Musculature:** Unicellular, N/A
8. **Movement:** pseudopods
9. **Behavior/activity:** Taxes
10. **Nervous system:** Unicellular, N/A
11. **Senses/detection:** Unicellular, chemotaxis migrates toward food, attracted to low pH, migrate away from some chemicals and extreme T°
12. **Nutrition:** Heterotrophic
13. **Digestive:** cilia-mediated, oral groove (mouth pore, gullet), food vacuole, enzymes
14. **Circulation:** Unicellular, N/A, diffusion
15. **Respiration-ventilation:** Unicellular, diffusion
16. **Final electron acceptor:** O<sub>2</sub>
17. **Excretory:** Unicellular, egestion
18. **Reproduction:** asexual and sexual (conjugation and meiosis)
19. **Life cycle/embryology:** Unicellular,
20. **Classification:** 1) movement, 2) shape, 3) reproduction