

## Biology

### Classification information

Organism (common name): *Euglena*

Name \_\_\_\_\_

Kingdom: Protista

Order:

Species:

Phylum: Protozoan

Family:

Class: Mastigophora

Genus:

Scientific name:

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1. **Special description:** Flagellates, Many parasitic, some pathogenic, Volvox (form hollow, spherical colonies), Trichonympha (symbiotic with termites), African Sleeping sickness (Trypanosoma)
2. **Habitat:** aquatic (fresh and marine) and terrestrial
3. **Symmetry/shape:** Unicellular, Variety of shapes
4. **Organization:** Unicellular; Pellicle, ectoplasm and endoplasm, contractile vacuoles (water regulation), gullet, nucleus with nucleolus. Colonial
5. **Integument:** unicellular, membrane only
6. **Skeleton:** Unicellular, N/A
7. **Musculature:** Unicellular, N/A
8. **Movement:** flagella (single or more, etc), euglenoid movement (modified amoeba), some free swimming, some sessile
9. **Behavior/activity:** Taxes, Migrates toward food, retreats from glass
10. **Nervous system:** Unicellular, N/A
11. **Senses/detection:** tiny-red-light-sensitive eyespot
12. **Nutrition:** Heterotrophic though some can be autotrophic, absorption, parasitic and saprophytic
13. **Digestive:** cilia-mediated, oral groove (mouth pore, gullet), food vacuole, enzymes
14. **Circulation:** Unicellular, diffusion
15. **Respiration-ventilation:** Unicellular, diffusion
16. **Final electron acceptor:** O<sub>2</sub>
17. **Excretory:** Unicellular, egestion
18. **Reproduction:** asexual and sexual, binary fission, once a day
19. **Life cycle/embryology:**
20. **Classification:** 1) movement, 2) shape, 3) reproduction