

Biology

Classification information

Organism (common name): amoeba

Name _____

Kingdom: Protista

Order:

Species:

Phylum: Protozoan

Family:

Class: Sarcodina

Genus:

Scientific name:

1. **Special description:** cyst formation to survive harsh conditions, some are pathogenic (Entamoeba histolytica (amebic dysentery), Entamoeba gingivalis, E. coli)
2. **Habitat:** aquatic (fresh and marine), parasitic (human mouth and intestines)
3. **Symmetry/shape:** Unicellular N/A, nondescript shape
4. **Organization:** Unicellular; nucleus, ectoplasm (watery fluid near membrane), endoplasm (dense fluid near center), contractile vacuoles (water regulation)
5. **Integument:** unicellular, membrane only
6. **Skeleton:** Unicellular N/A
7. **Musculature:** Unicellular N/A
8. **Movement:** pseudopods, amoeboid
9. **Behavior/activity:** Taxes, Migrates toward food, retreats from glass
10. **Nervous system:** Unicellular, N/A
11. **Senses/detection:** Unicellular, chemotaxis
12. **Nutrition:** Heterotrophic
13. **Digestive:** phagocytosis, food vacuole, enzymes
14. **Circulation:** Unicellular N/A, diffusion
15. **Respiration-ventilation:** Unicellular N/A, diffusion
16. **Final electron acceptor:** O₂
17. **Excretory:** Unicellular N/A, egestion
18. **Reproduction:** asexual, mitosis, 3 day cycle
19. **Life cycle/embryology:** Some cycle back and forth between asexual and sexual forms. Some cycle through hosts and vectors.
20. **Classification:** 1) movement, 2) shape, 3) reproduction