

Biology

Classification information

Organism (common name): Red Algae

Name _____

Kingdom: Protista

Order:

Species:

Phylum: Rhodophyta

Family:

Class:

Genus:

Scientific name:

1. **Special description:** pigments (chlorophyll a and b, and carotenoids), Source of agar, calcium carbonate for reef bldg
2. **Habitat:** marine, some fresh water
3. **Symmetry/shape:** Unicellular N/A, nondescript shape
4. **Organization:** Unicellular; colonial forms ribbon-like or feathery thallus
5. **Integument:** unicellular, cell wall contains silica
6. **Skeleton:** Unicellular N/A
7. **Musculature:** Unicellular N/A
8. **Movement:** Sessile, floaters
9. **Behavior/activity:** Taxes, Migrates toward food, retreats from glass
10. **Nervous system:** Unicellular, N/A
11. **Senses/detection:** Unicellular, chemotaxis
12. **Nutrition:** Heterotrophic, Carbohydrate storage
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:** Sexual
19. **Life cycle/embryology:** Unicellular N/A
20. **Classification:** 1) Pigments, 2) Food storage, 3) Cell wall composition