

## Biology

### Classification information

Organism (common name): Plasmodium

Name \_\_\_\_\_

Kingdom: Protista

Order:

Species:

Phylum: Protozoan

Family:

Class: Sporozoa

Genus:

Scientific name:

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- 1. Special description:** Sporozoans, malaria, all parasitic. : Plasmodium, (malaria="bad air"), more deaths than any other, Dr. Charles Laveran discovered the pathogen, Life cycle: Human blood -> Anophles (cells mature and migrate to salivary)-> Human (blood-liver-rbc, chills and fever)
- 2. Habitat:** parasitic
- 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:** Motile only during immature stage, not as adults
- 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 parasitic
- 13. Digestive:** cilia-mediated, oral groove (mouth pore, gullet), food vacuole, enzymes
- 14. Circulation:** Unicellular, diffusion
- 15. Reproduction:** sexual and asexual
- 16. Respiration-ventilation:** Unicellular, diffusion
- 17. Final electron acceptor:** O<sub>2</sub>
- 18. Excretory:** Unicellular, egestion
- 19. Life cycle/embryology:** Unicellular, spore forming (nucleus divides several times and gathers cytoplasm), cell breaks apart, complex life cycle
- 20. Classification:** 1) movement, 2) shape, 3) reproduction