

Kingdom Protista | Section 2.2.5

Protozoans: Animal-Like Protists



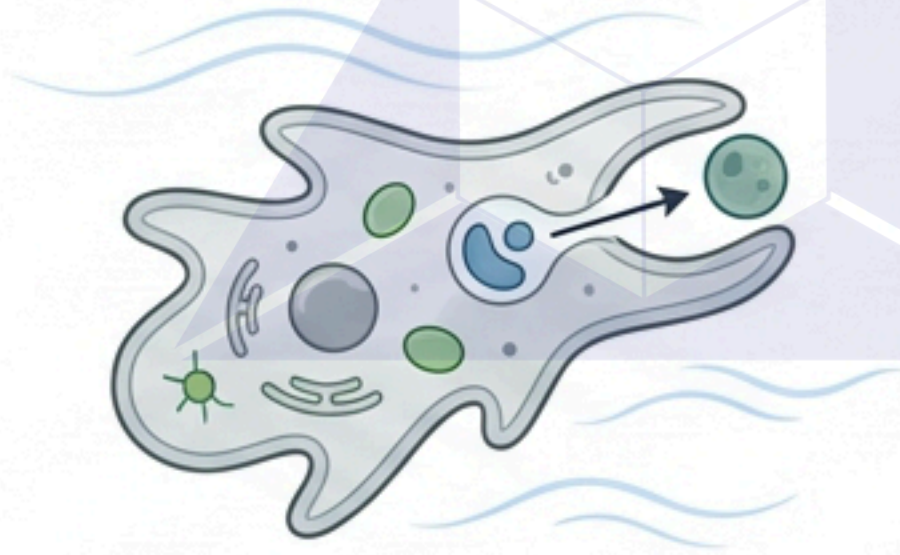
NEET High-Yield Revision Deck

The Core Nature of Protozoans

Protozoans are believed to be the primitive relatives of animals. All protozoans are strict heterotrophs, **bifurcating into two distinct survival lifestyles.**

FREE-LIVING

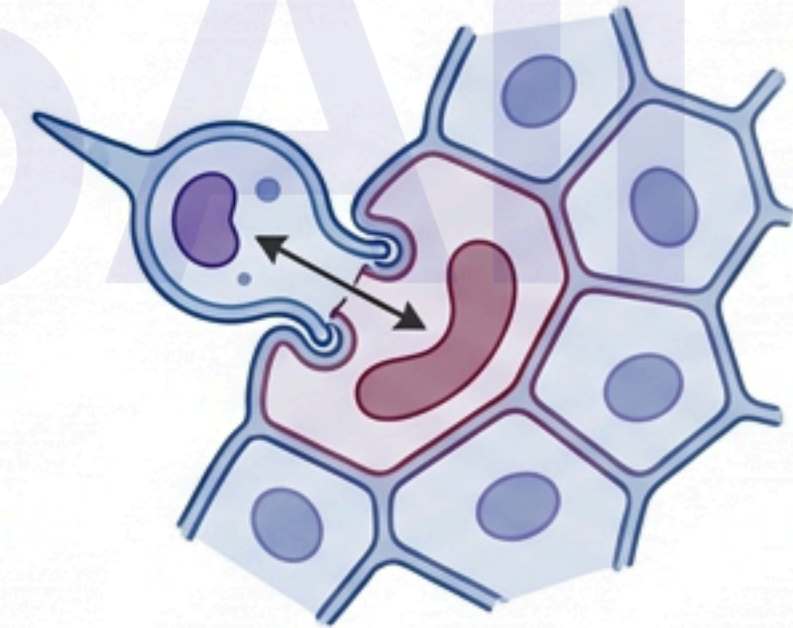
Predator Lifestyle



Actively hunt and capture prey in aquatic or moist environments.

INFECTIOUS

Parasite Lifestyle



Live inside or on a host organism, entirely dependent on them for nutrition.

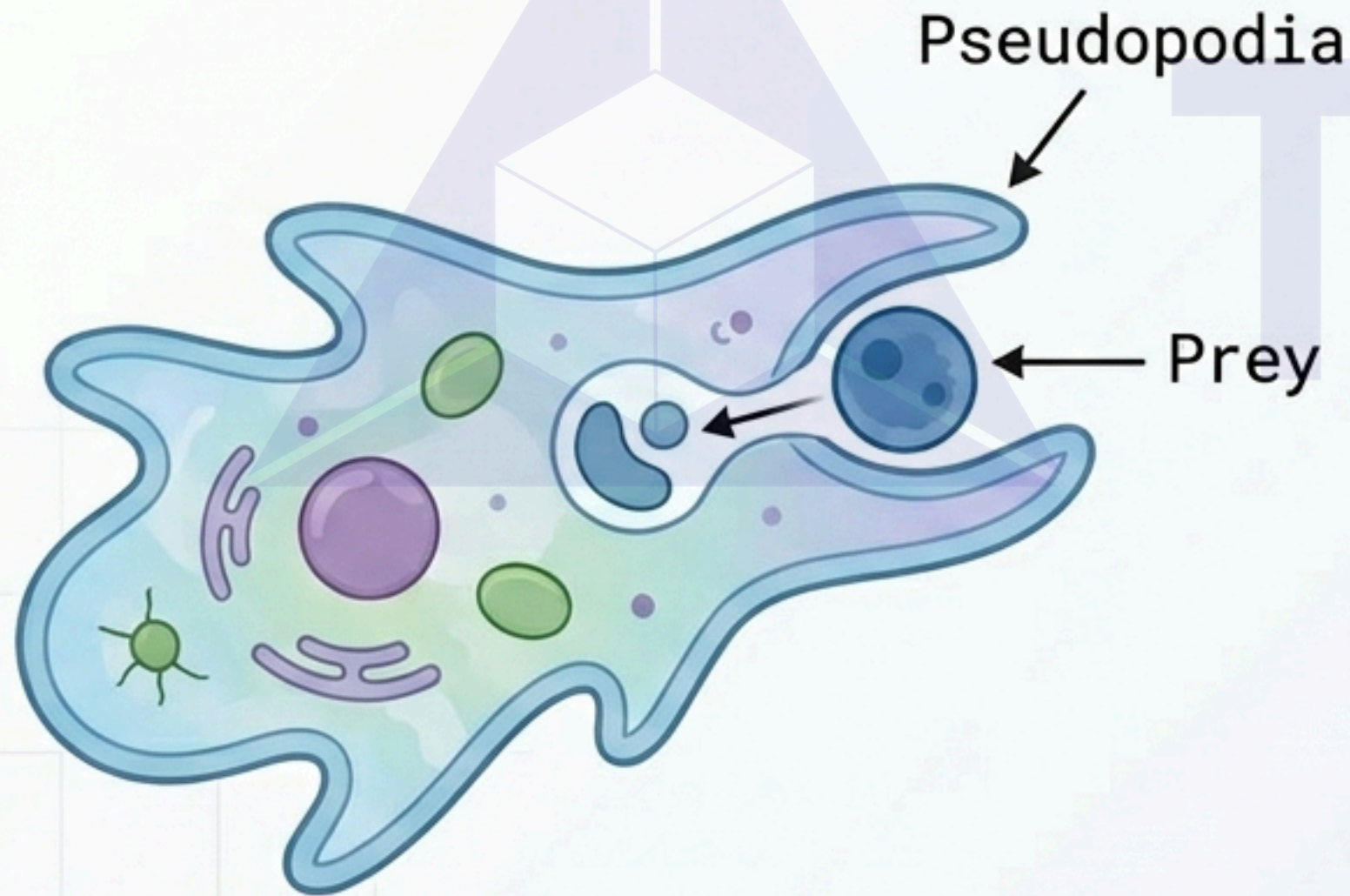
Amoeboid Protozoans

The Shape-Shifters

Fresh Water

Sea Water

Moist Soil



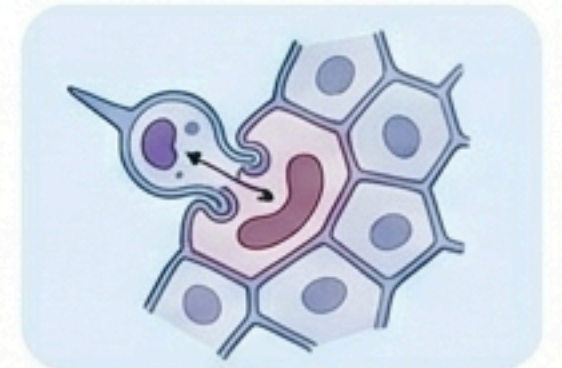
Morphological Alert: Marine forms possess distinct silica shells on their surface.

Amoeba



Free-living predator,
engulfs food.

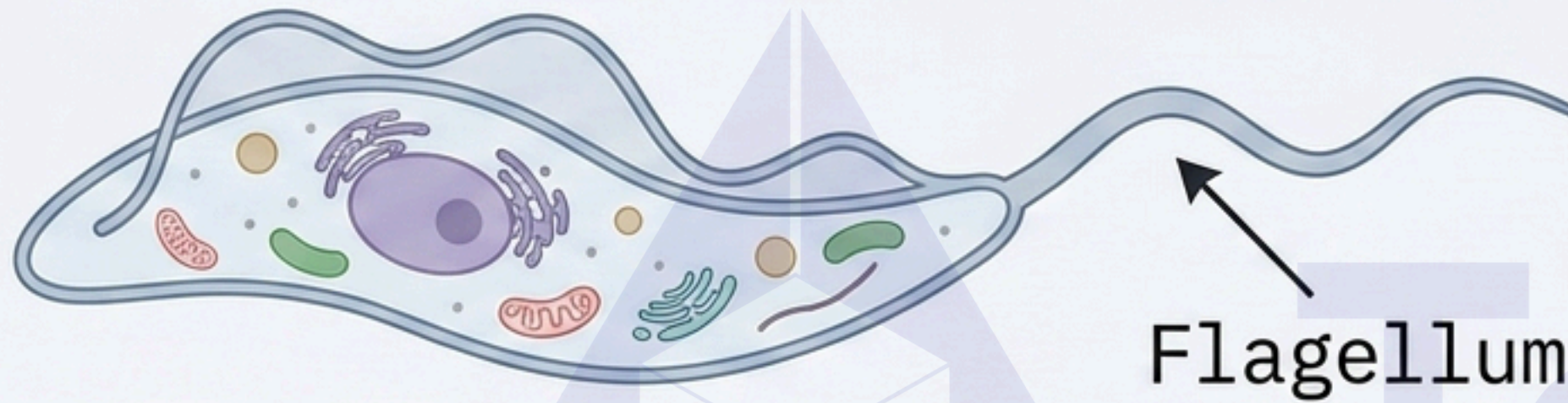
Entamoeba



Parasitic, invades
host tissues.

Flagellated Protozoans

The Whip-Movers



- Members of this group are either free-living or parasitic, utilizing flagella for propulsion.



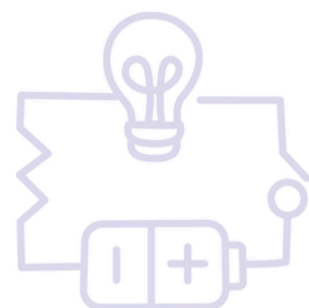
Trypanosoma

The parasitic forms of this group are highly pathogenic, causing sleeping sickness in humans.



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



Turn theory into marks with **unlimited MCQs, smart analysis, and focused revision.**

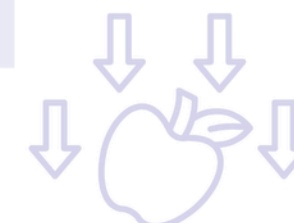
Practice Now



At prep.topall.app

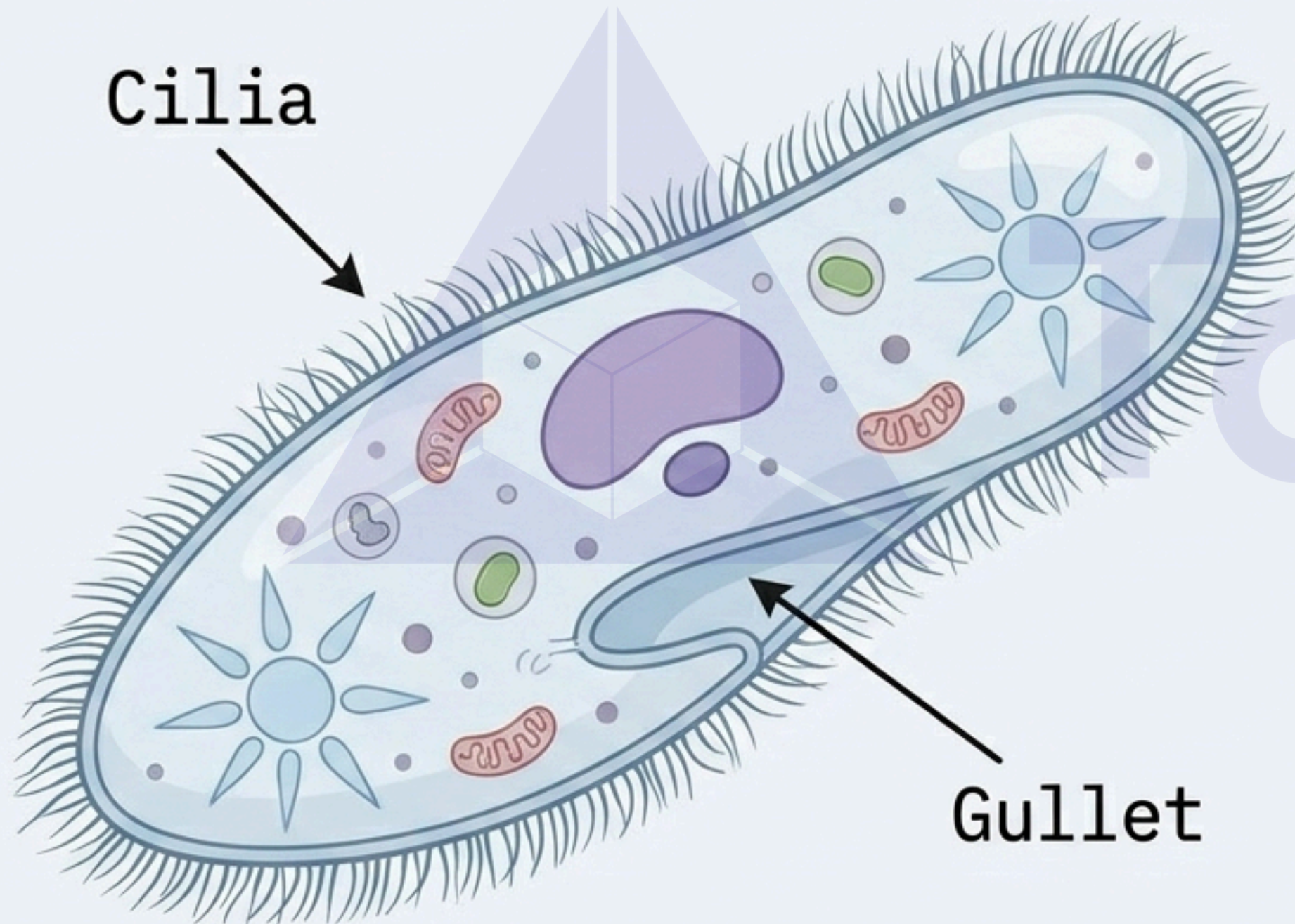
Key Highlights

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- » Get Clear Explanations, Not Just Marks
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Ciliated Protozoans

Coordinated Aquatic Rowers

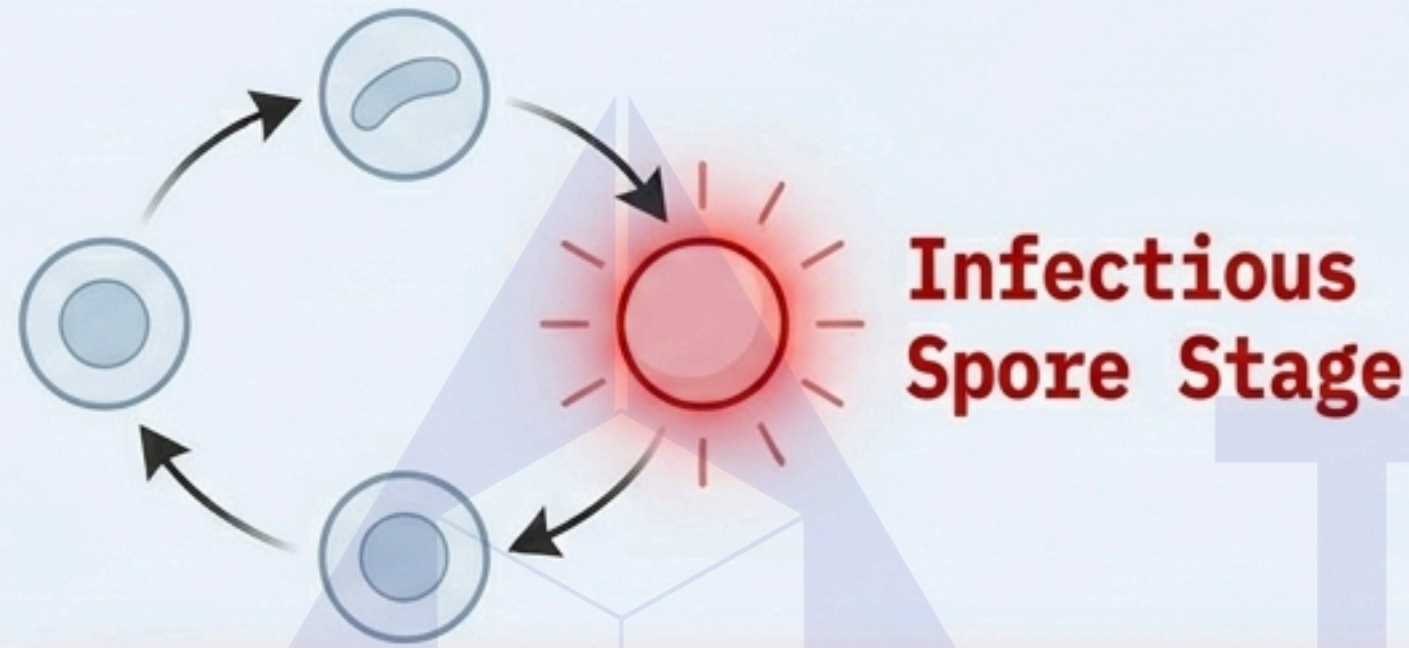


- **Habitat:** Strictly aquatic, actively moving organisms.
- **Action:** Features thousands of cilia. The coordinated, rhythmic movement of rows of cilia acts like oars.
- **Feeding:** Water laden with food is mechanically steered into the gullet.

Paramecium

Sporozoans

The Spore-Makers



- A diverse group of organisms unified by having a highly infectious spore phase in their life cycle.
- Adult locomotion organelles are completely absent.



Plasmodium

(Malarial parasite)

Causes malaria. Noted specifically for having a staggering, devastating effect on human populations historically and currently.

Taxonomy Synthesis: Locomotion Matrix



Class:
Amoeboid

Movement:
Pseudopodia

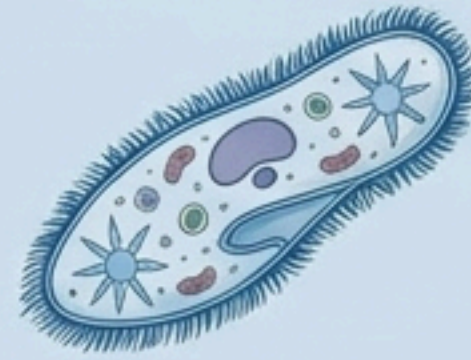
Organisms:
Amoeba,
Entamoeba



Class:
Flagellated

Movement:
Flagella

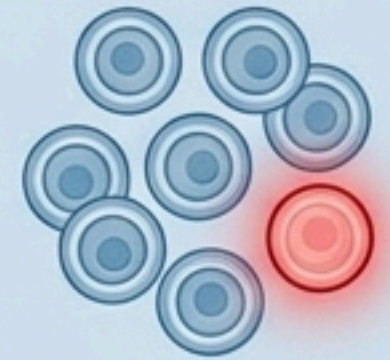
Organisms:
Trypanosoma



Class:
Ciliated

Movement:
Cilia

Organisms:
Paramecium



Class:
Sporozoans

Movement:
Spores
(Infectious)

Organisms:
Plasmodium

Key Takeaways

Ancestry: Protozoans are strictly heterotrophic (predators/parasites) and represent the primitive relatives of animals.

Classification: The four major groups are categorized entirely by their primary mode of movement: false feet, whips, hairs, or infectious spores.

Anatomy: Ciliates are unique for their coordinated cilia movement and external-facing cavity (Gullet). Marine amoeboids uniquely feature silica shells.

Pathology: High-yield pathogens to memorize include *Plasmodium* (Malaria), *Trypanosoma* (Sleeping Sickness), and *Entamoeba* (Parasitic amoeboid).



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