

# Today's goals....

- *To describe Kingdoms: Fungi & Monera*

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Mini Quiz: Daily  
Topic Quiz: Friday  
Unit Exam: 11/22



Bird W



Bird X



Bird Y



Bird Z

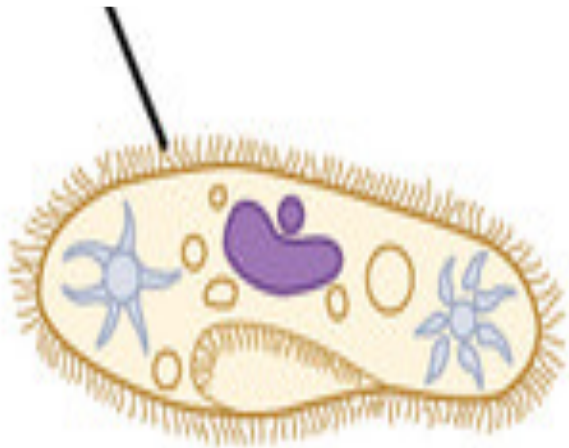
### Dichotomous Key to Representative Birds

1. a. The beak is relatively long and slender.....*Certhidea*  
 b. The beak is relatively stout and heavy.....go to 2
2. a. The bottom surface of the lower beak is flat and straight .....*Geospiza*  
 b. The bottom surface of the lower beak is curved .....go to 3
3. a. The lower edge of the upper beak has a distinct bend .....*Camarhynchus*  
 b. The lower edge of the upper beak is mostly flat .....*Platyspiza*

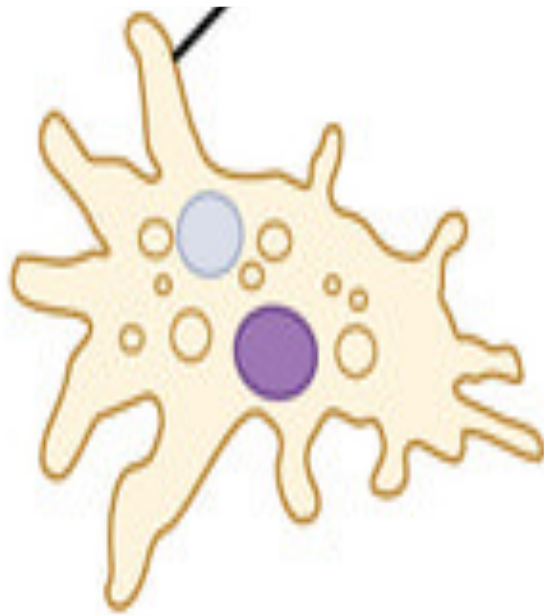
Bird X is most likely

- (1) *Certhidea*
- (2) *Geospiza*
- (3) *Camarhynchus*
- (4) *Platyspiza*

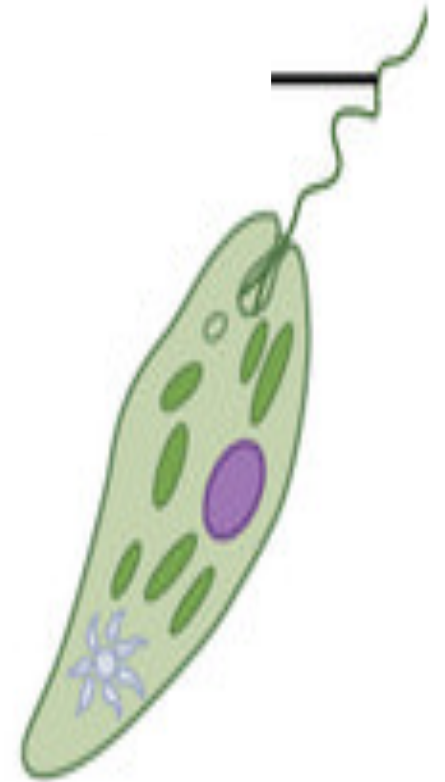
**D**



(a)



(b)

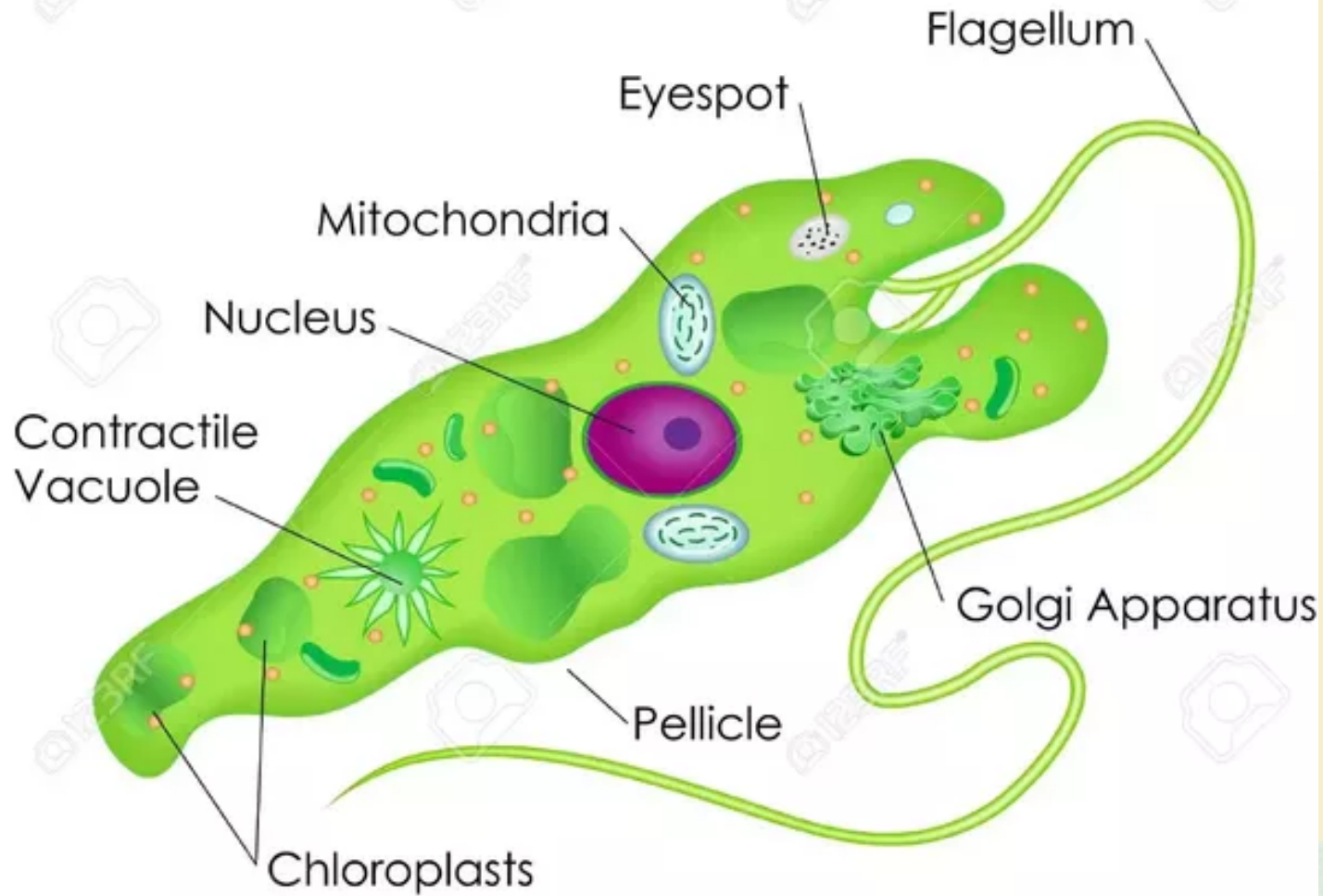


(c)

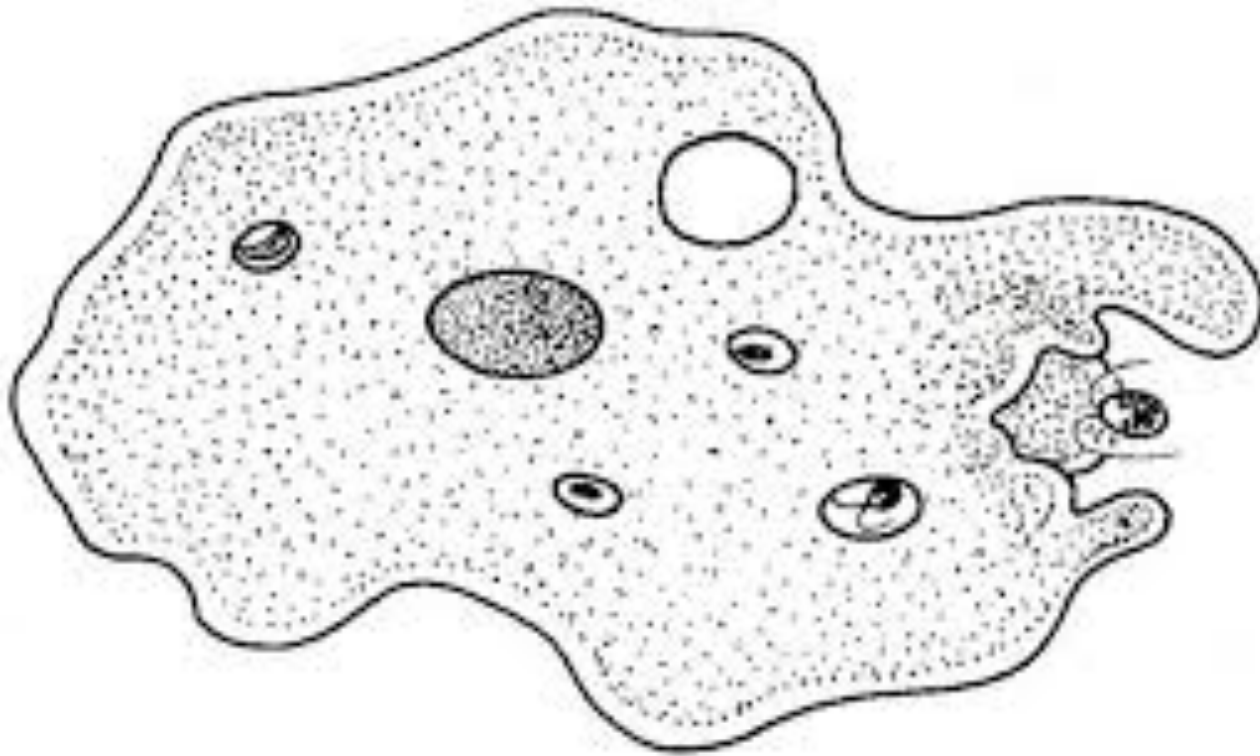
Flagella, cilia, and pseudopods  
increases chance to obtain food



# Name that Protist



# Name that Protist

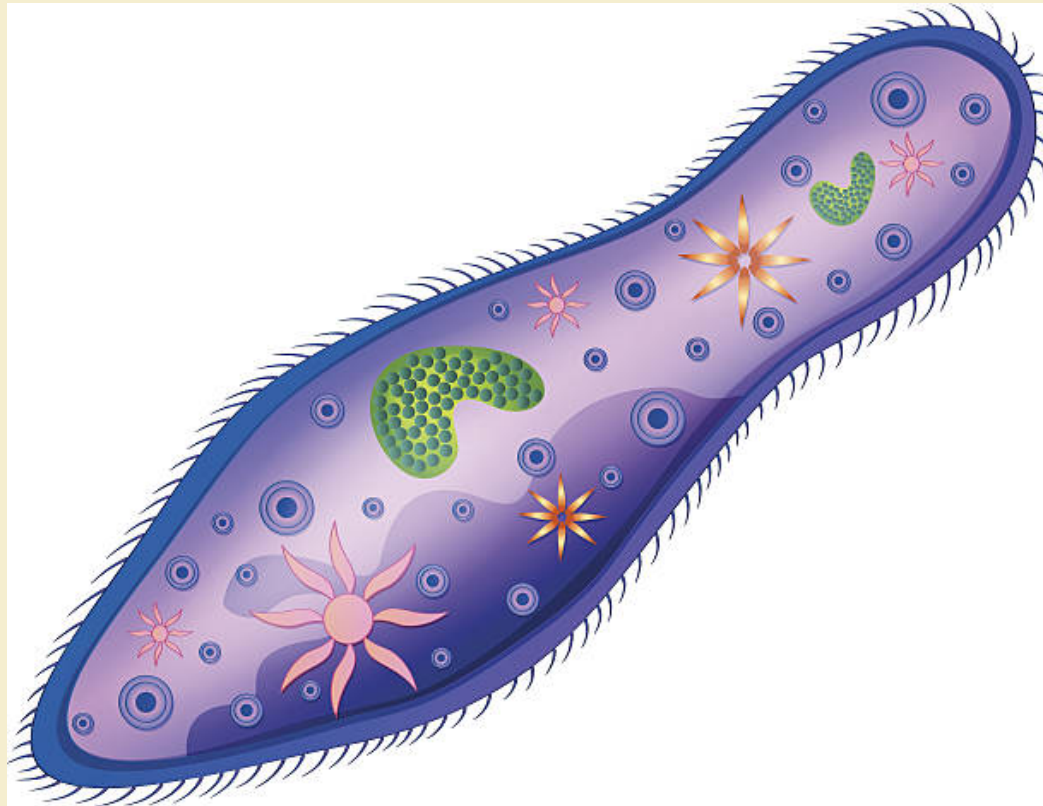


# Name that Protist





# Name that Protist



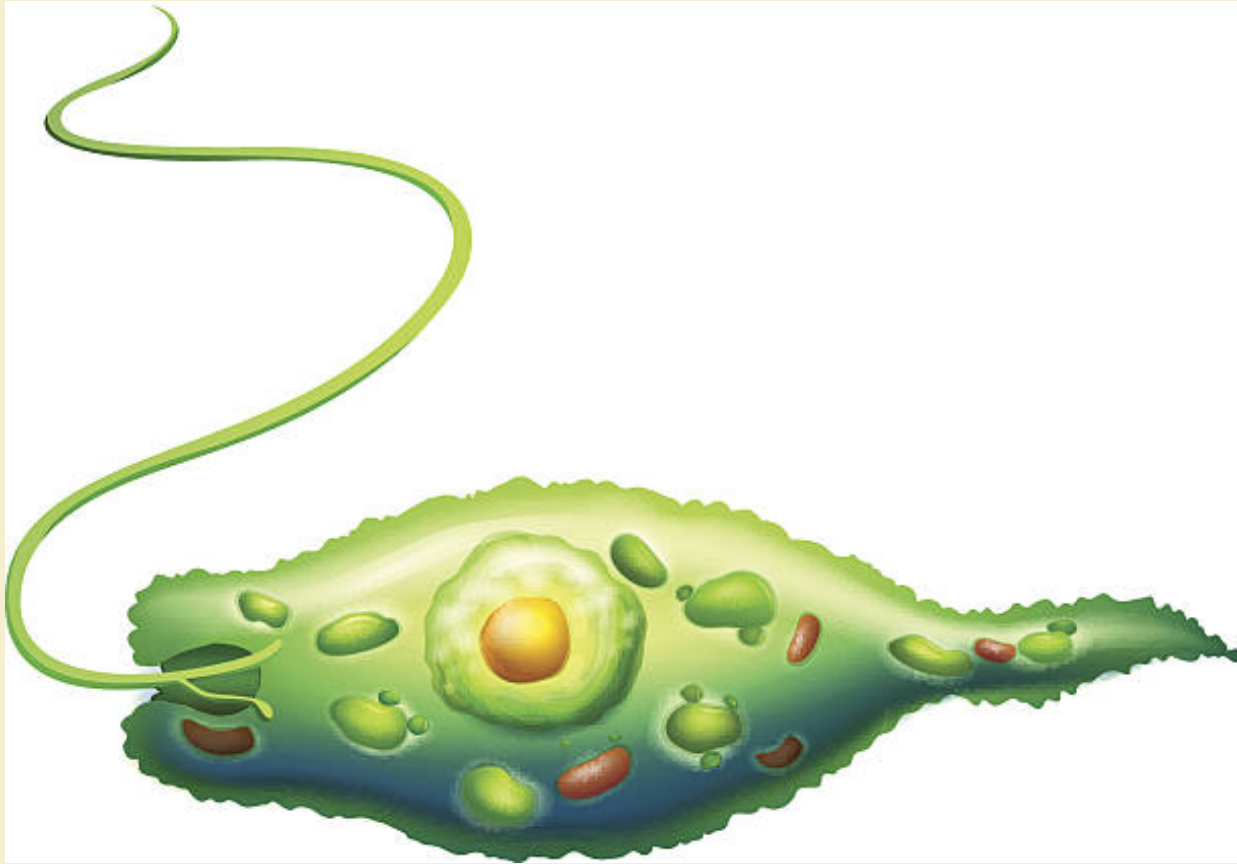
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# Name that Protist



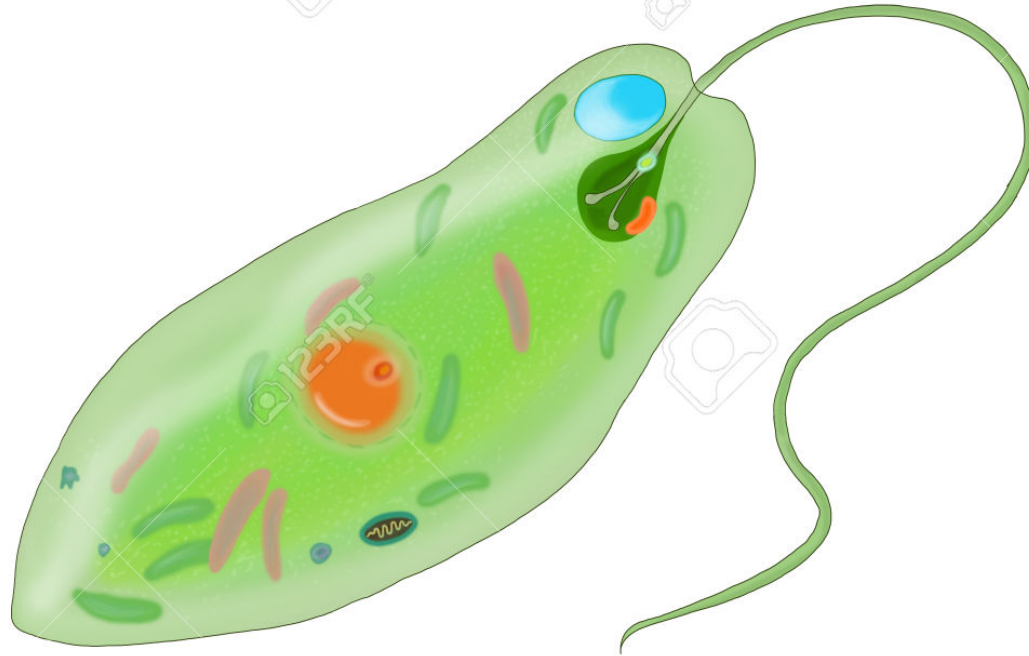
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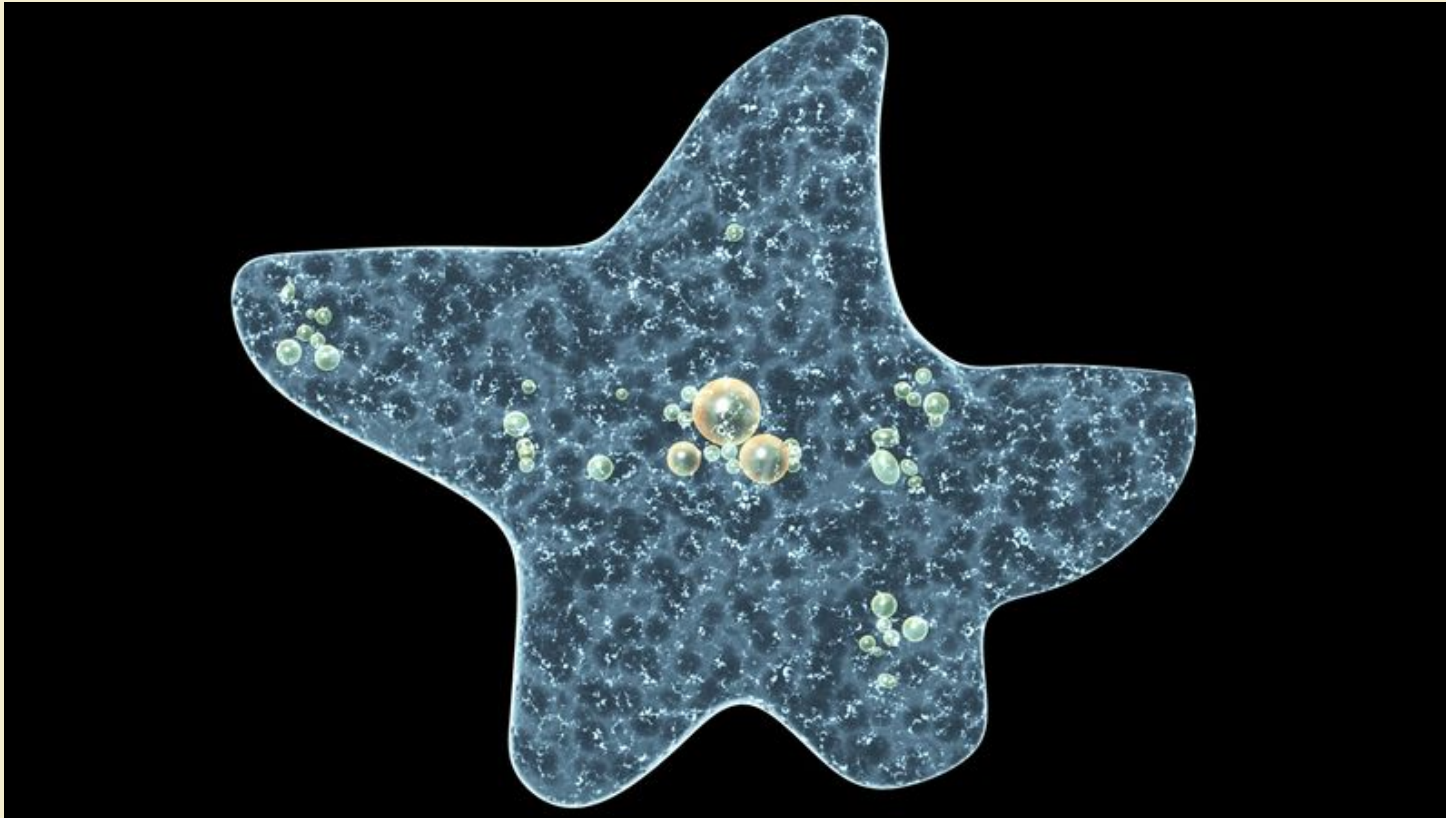
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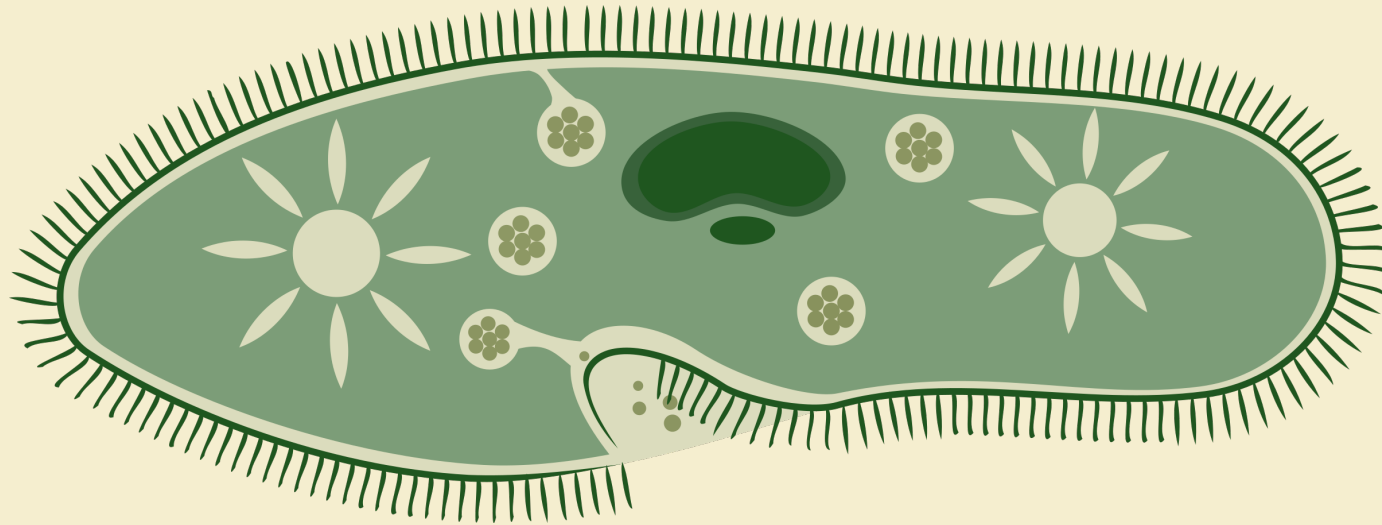
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# Name that Protist





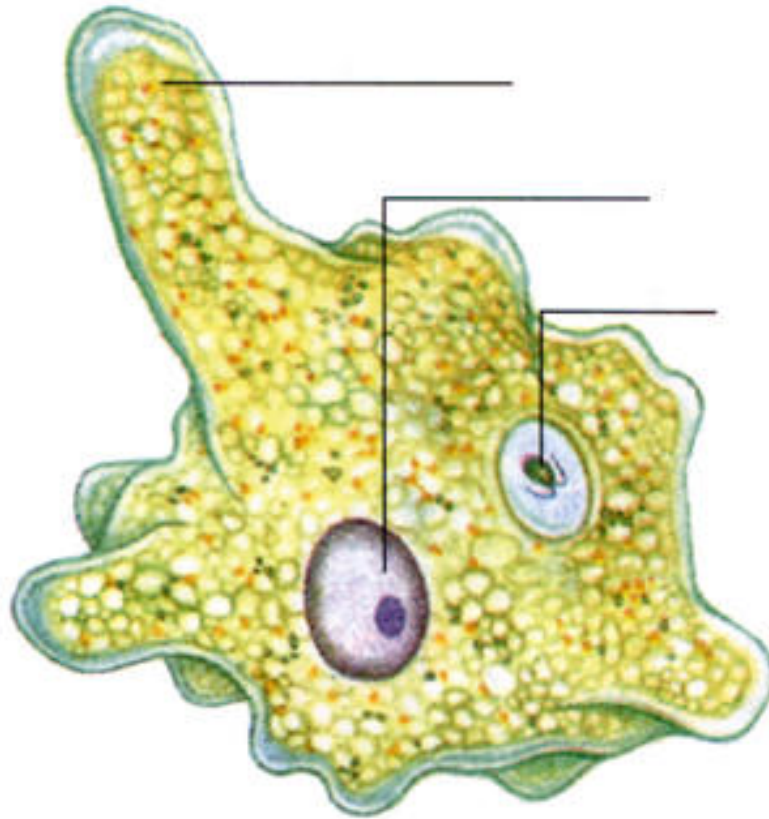
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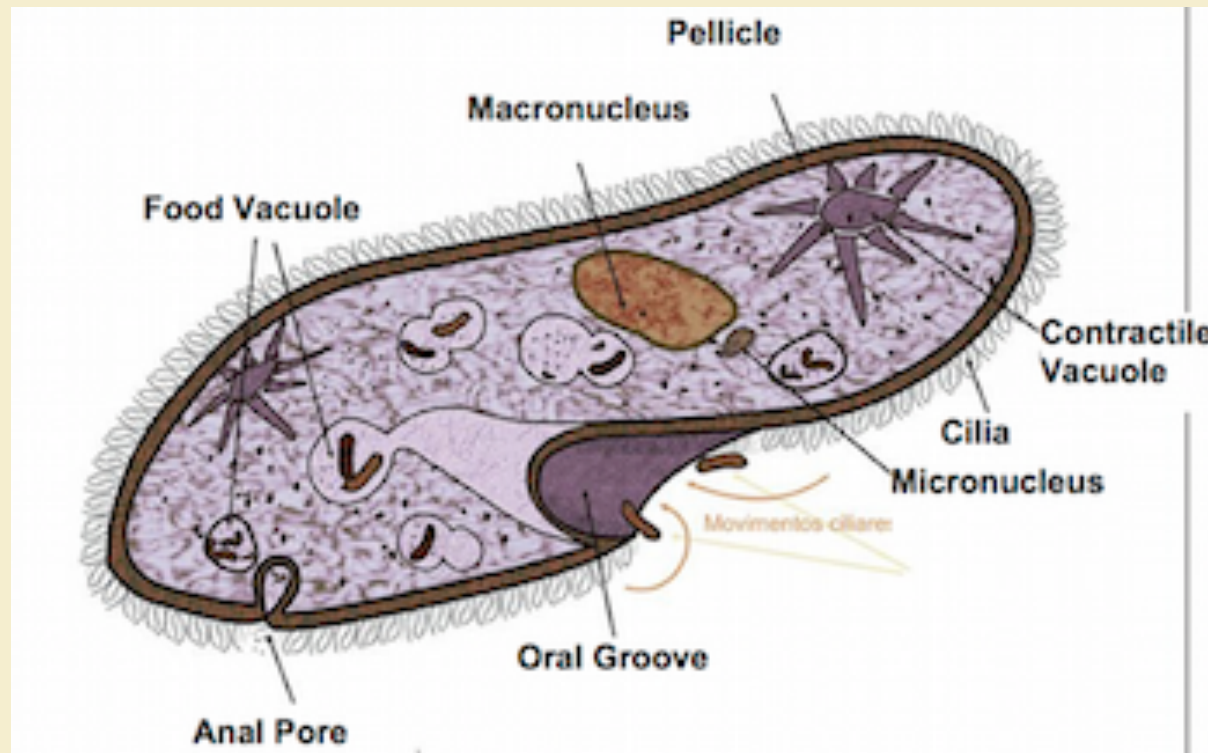
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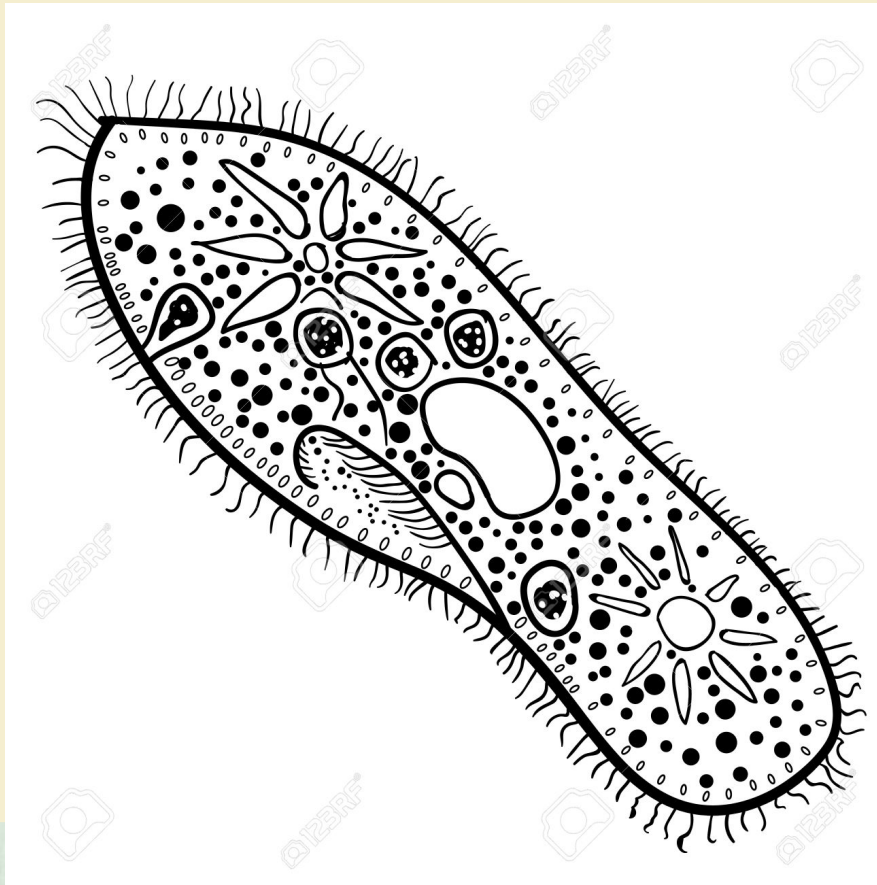
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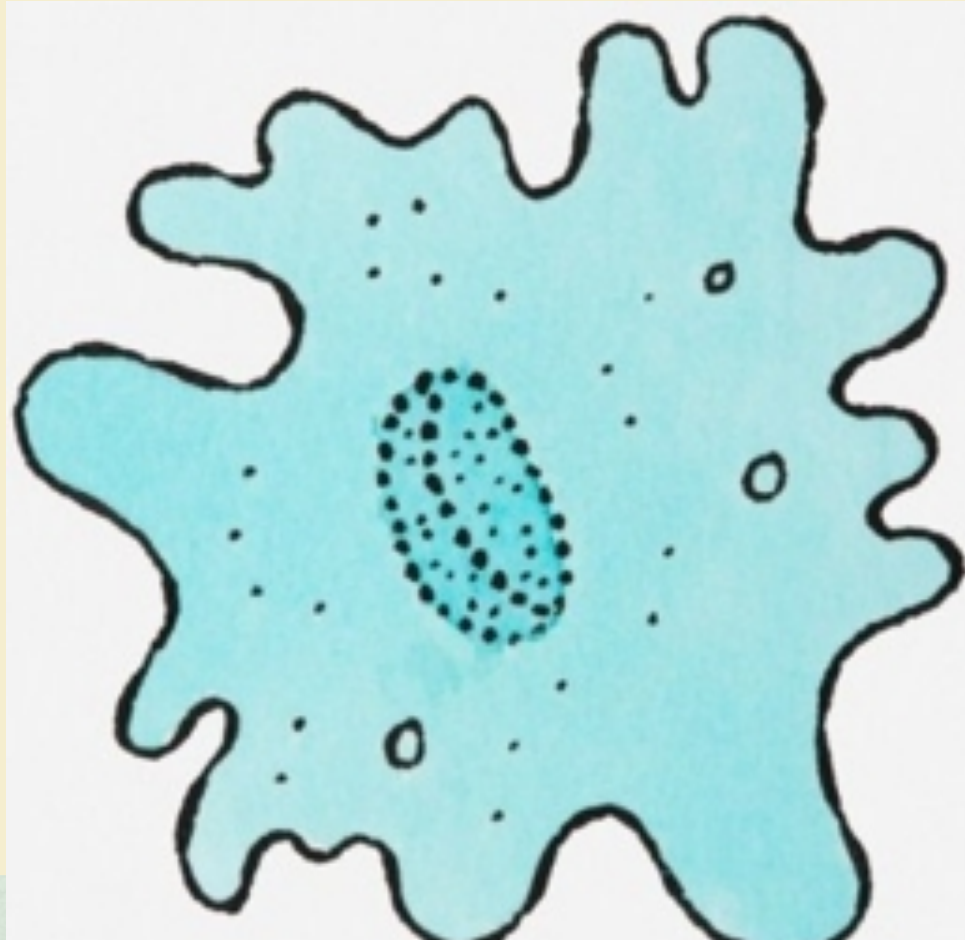
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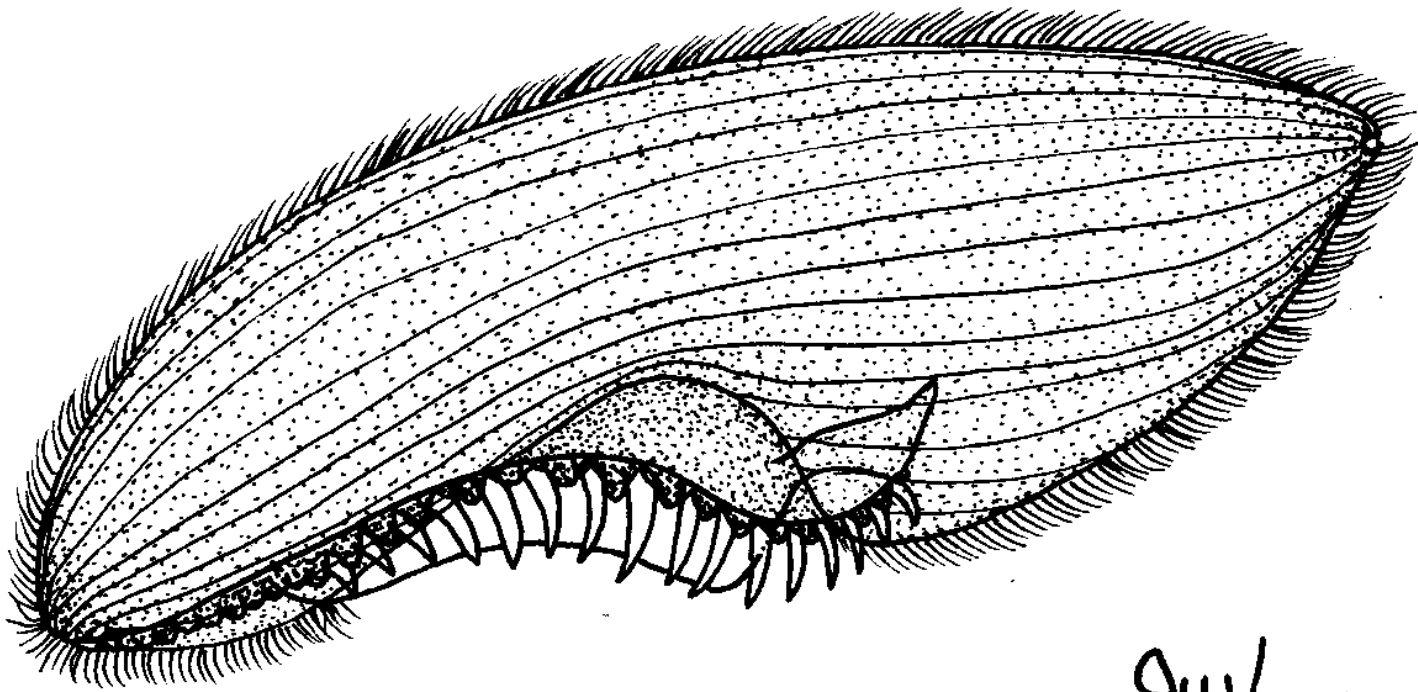
# Name that Protist



# Name that Protist



# Name that Protist



I. Livingstone © BIODIDAC

9/4/95

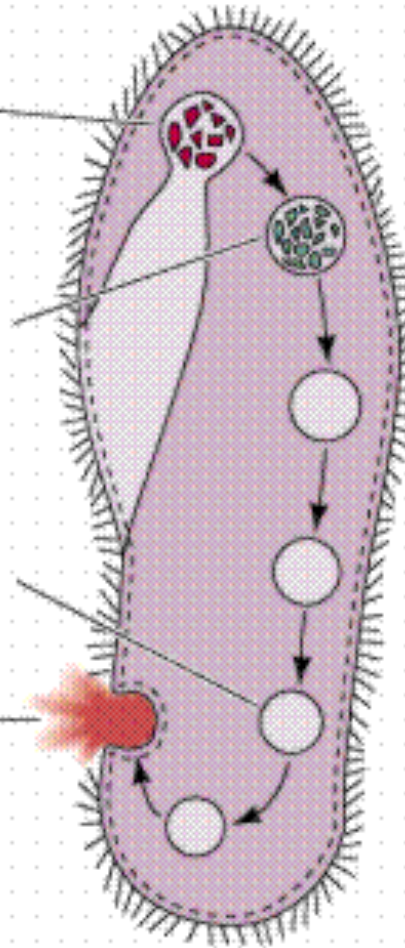
# Name that Protist

Food vacuole forming  
around yeast cells

Vacuole becomes acidic

Alkalinity reestablished

Waste material  
expelled





# Name that Protist



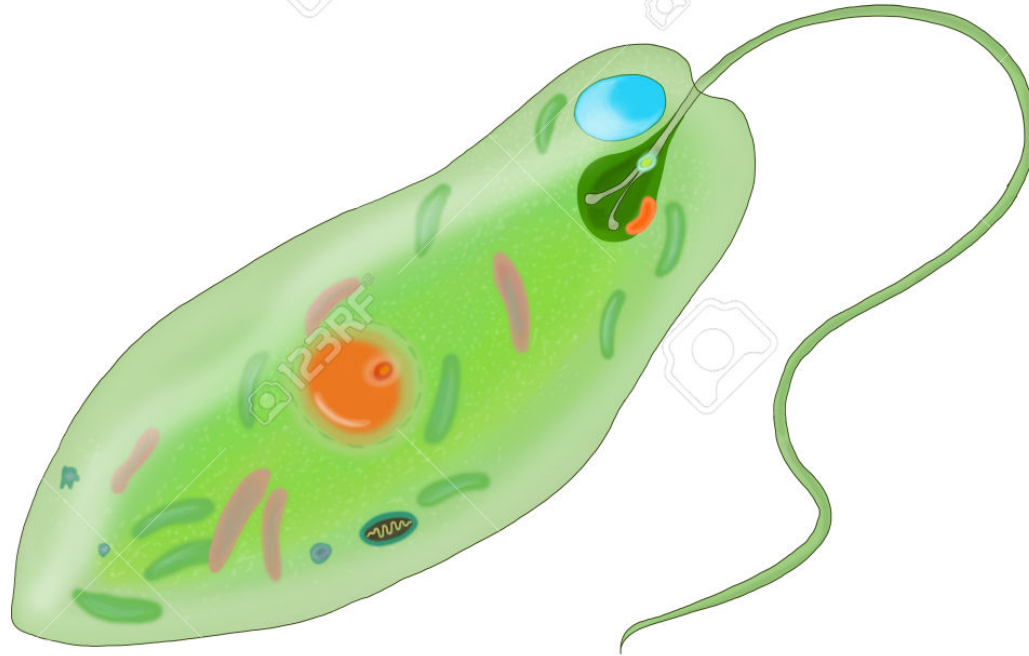
# Name that Protist



# Name that Protist



# Name that Structure



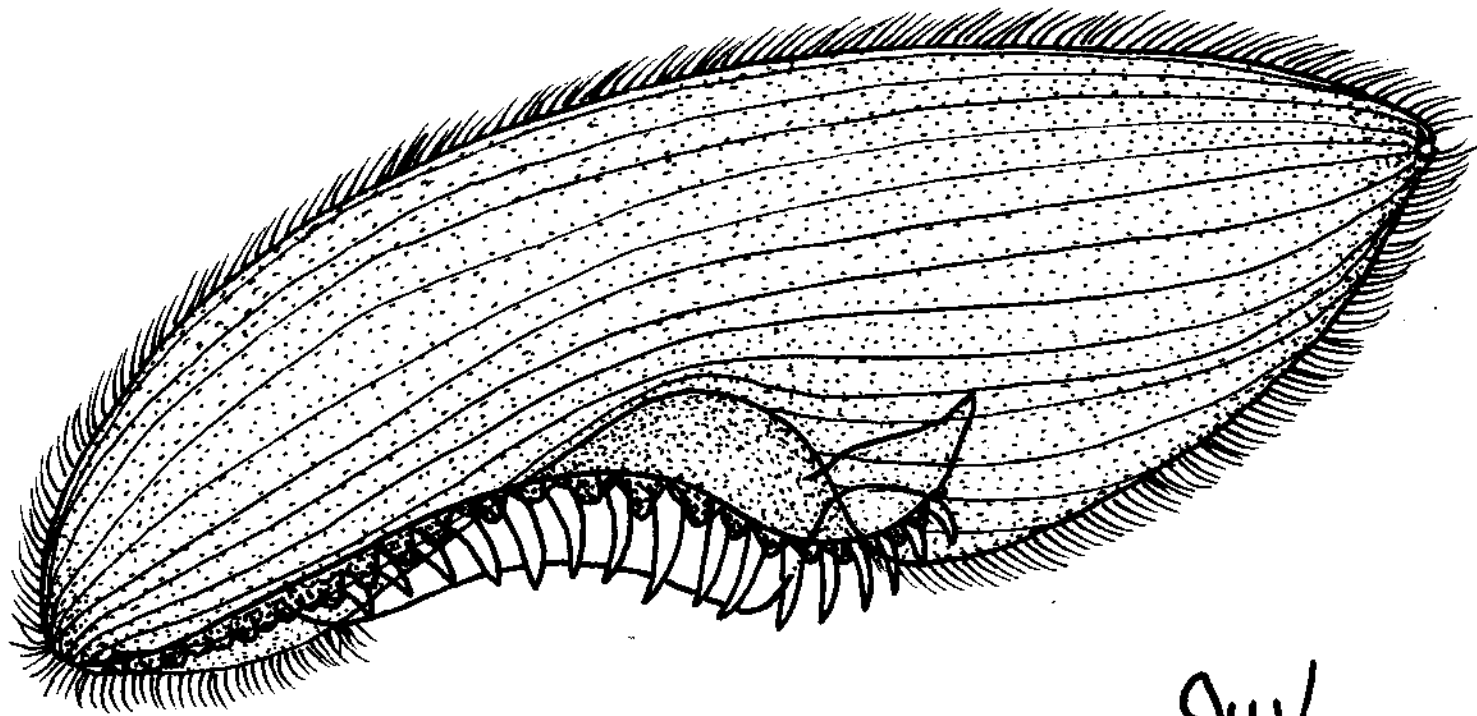
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# Name that Structure



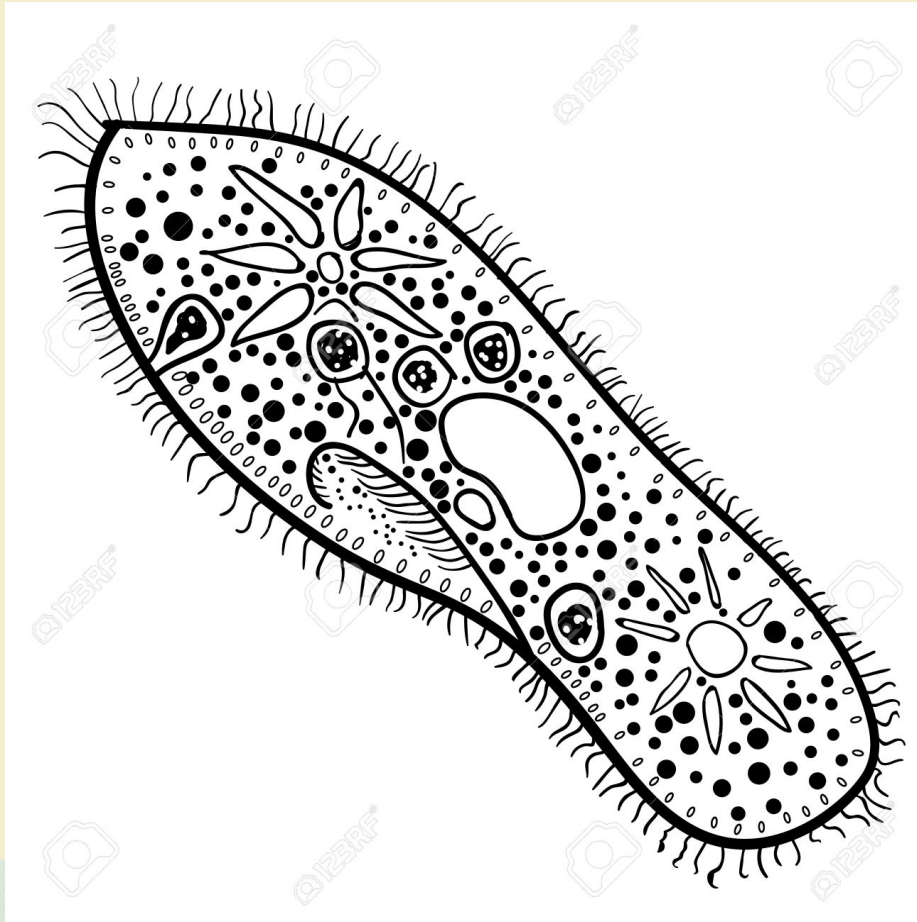
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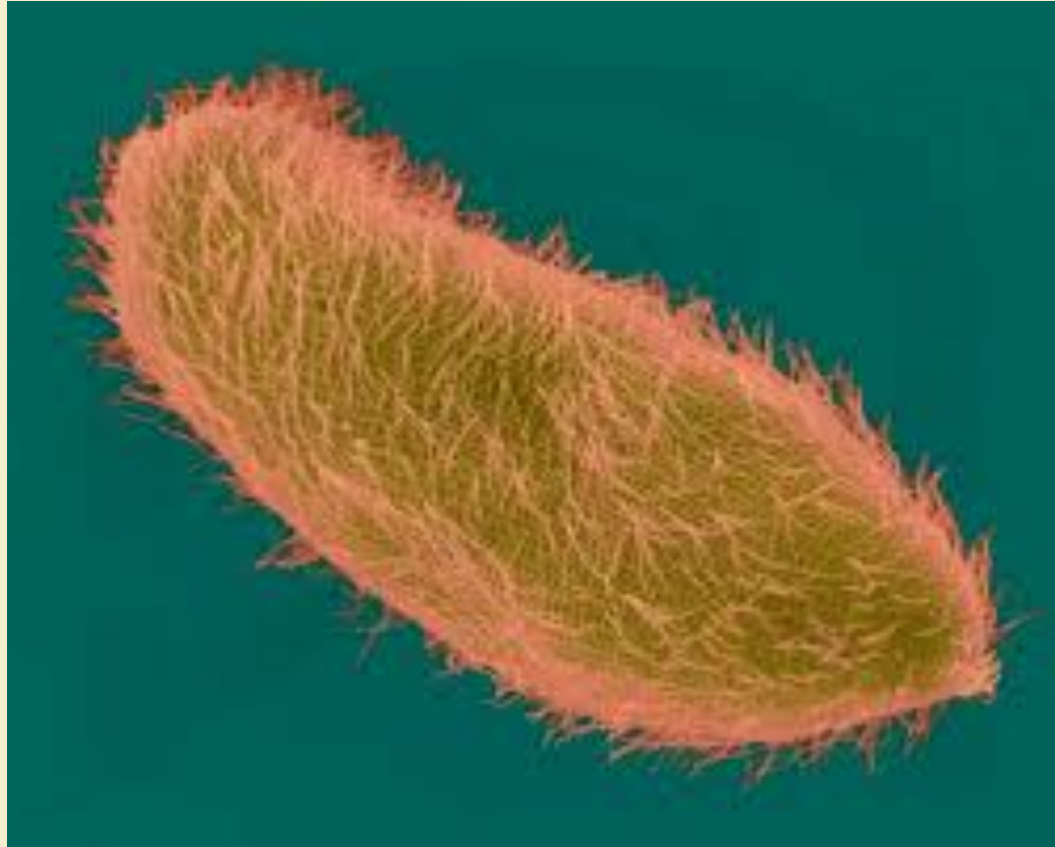
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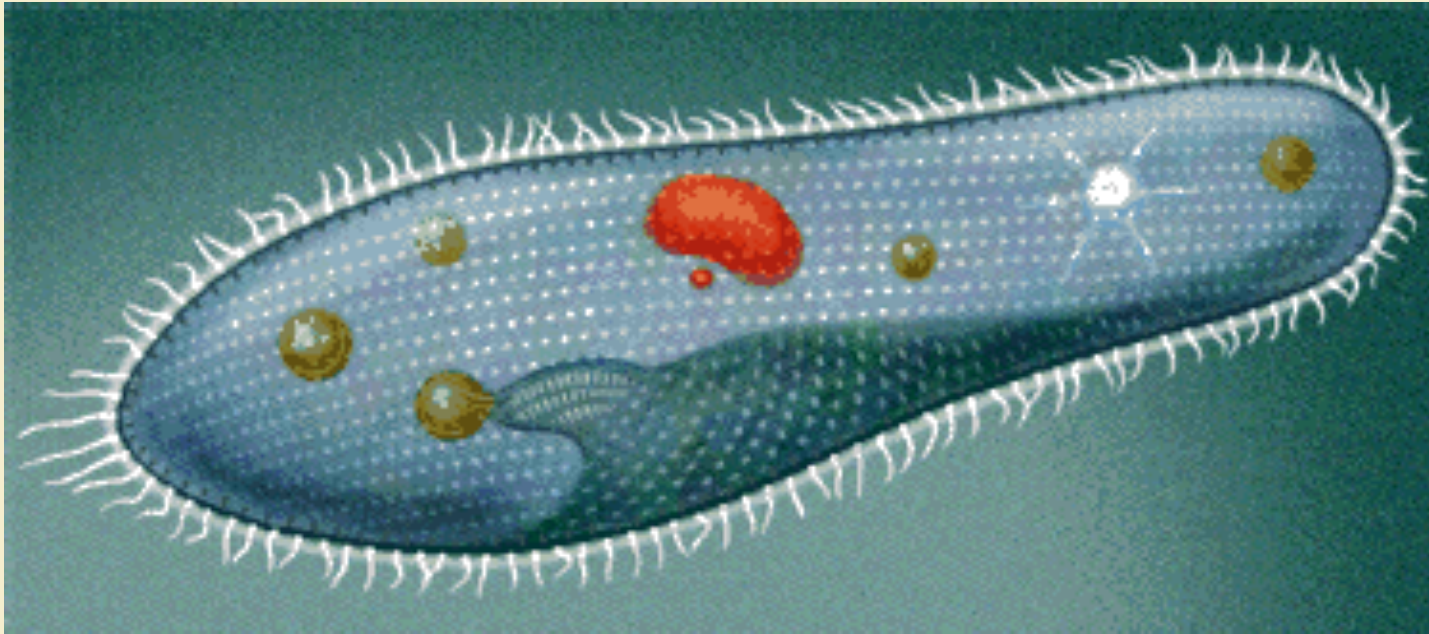




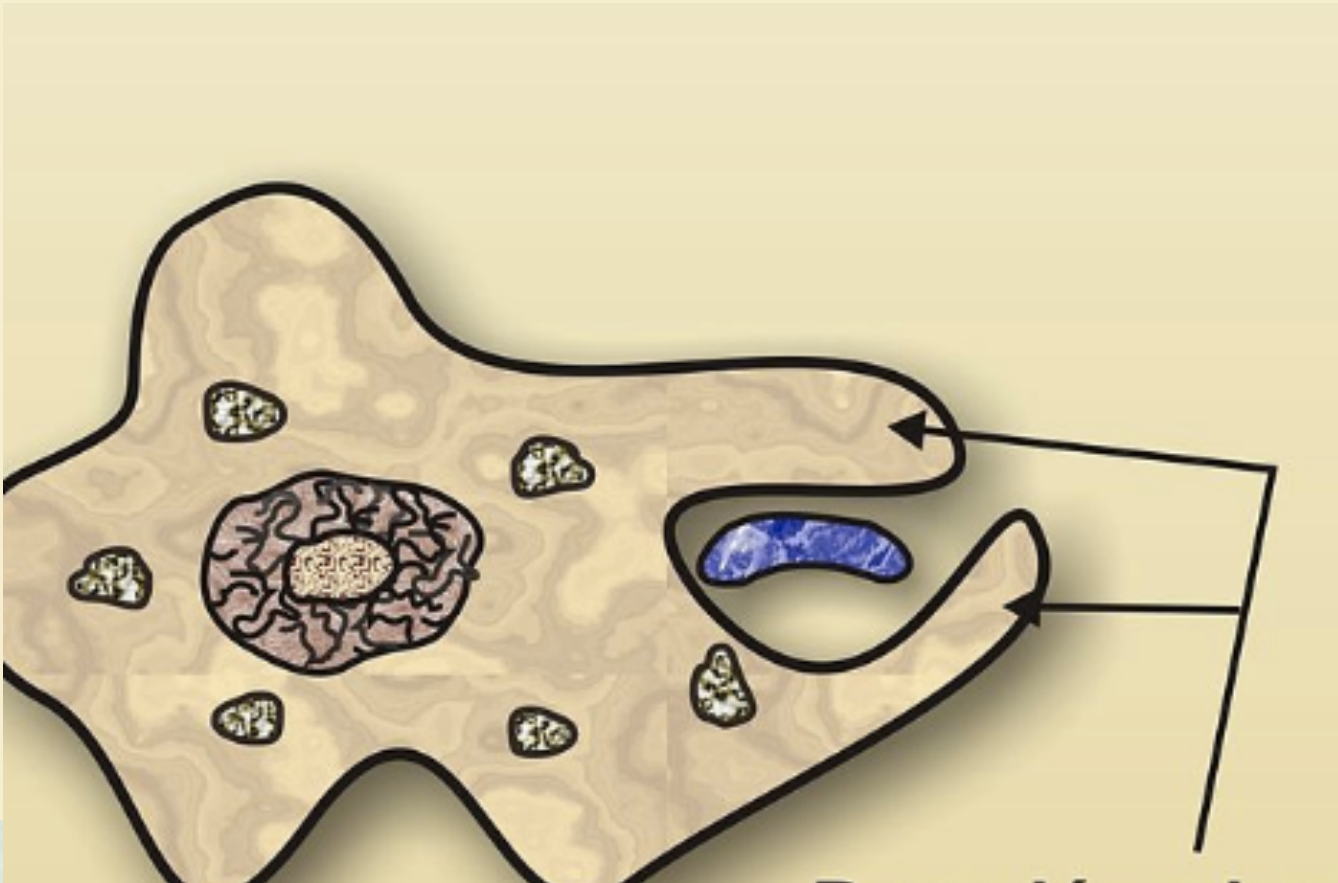
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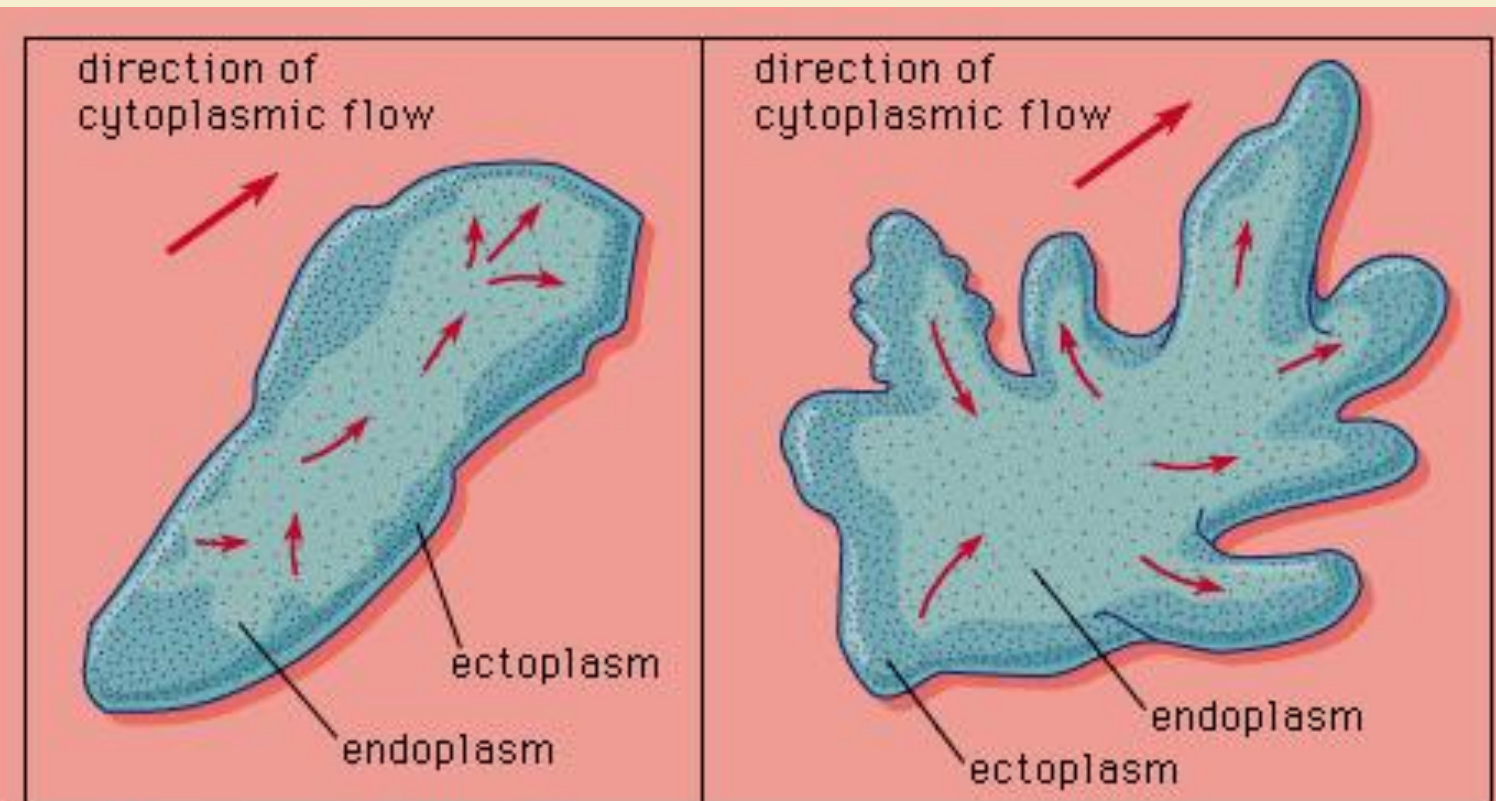


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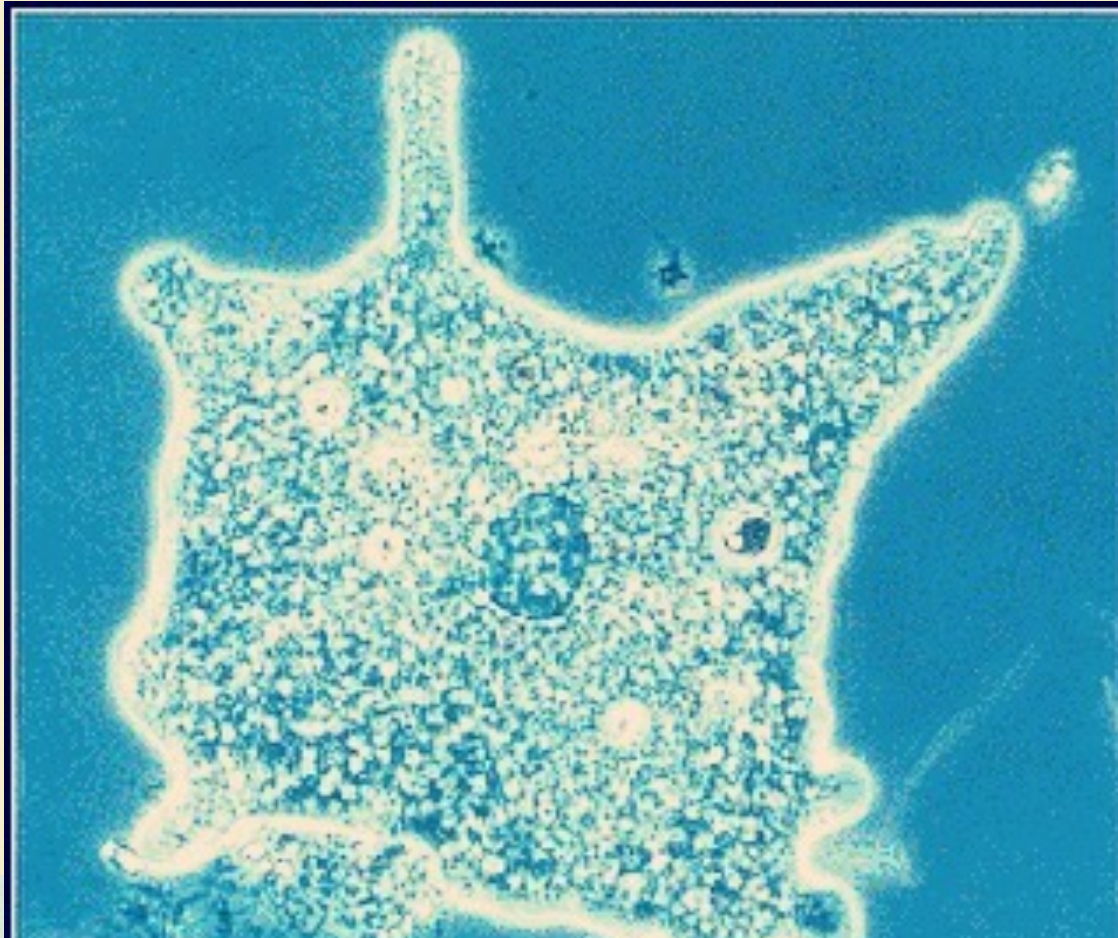




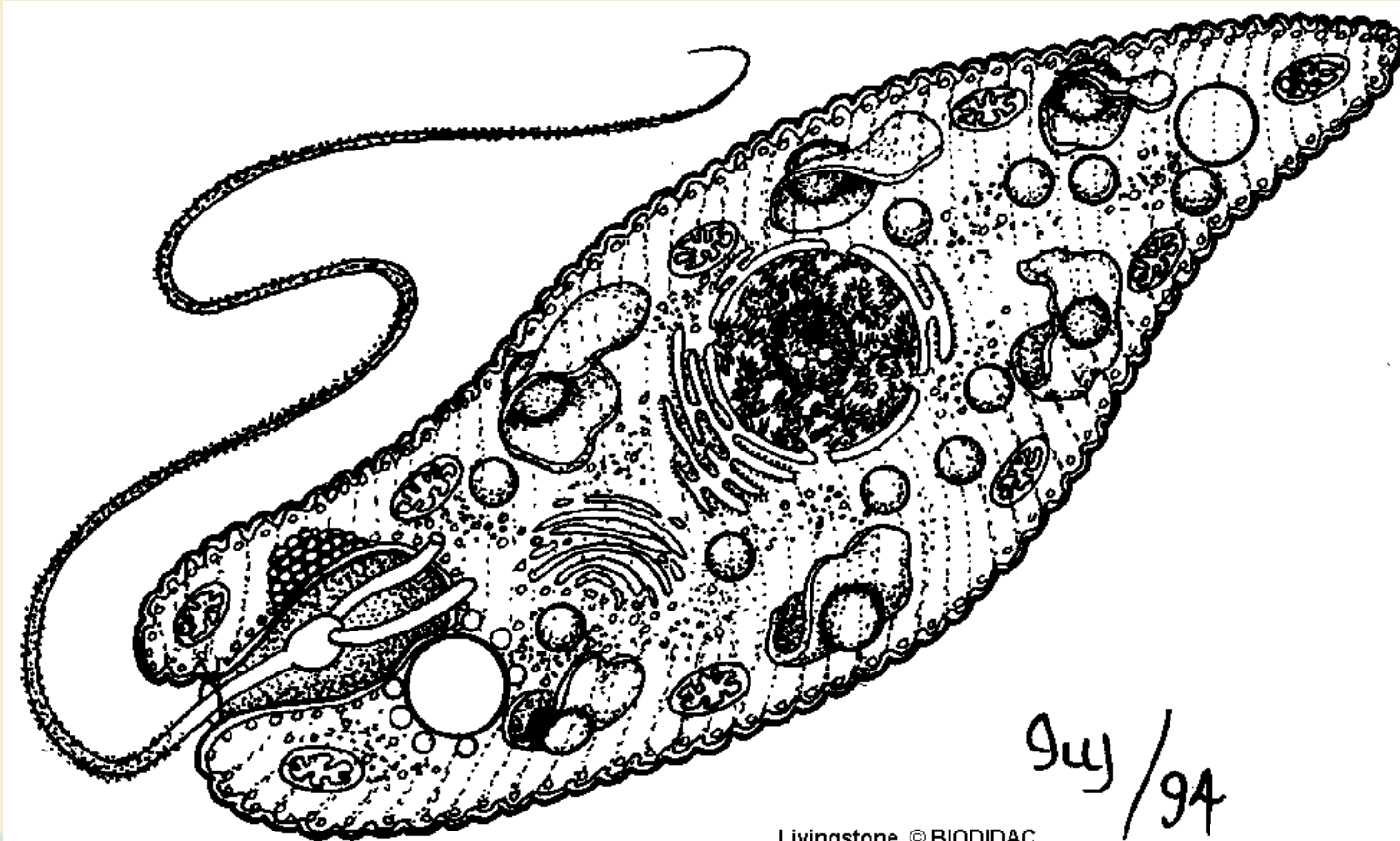
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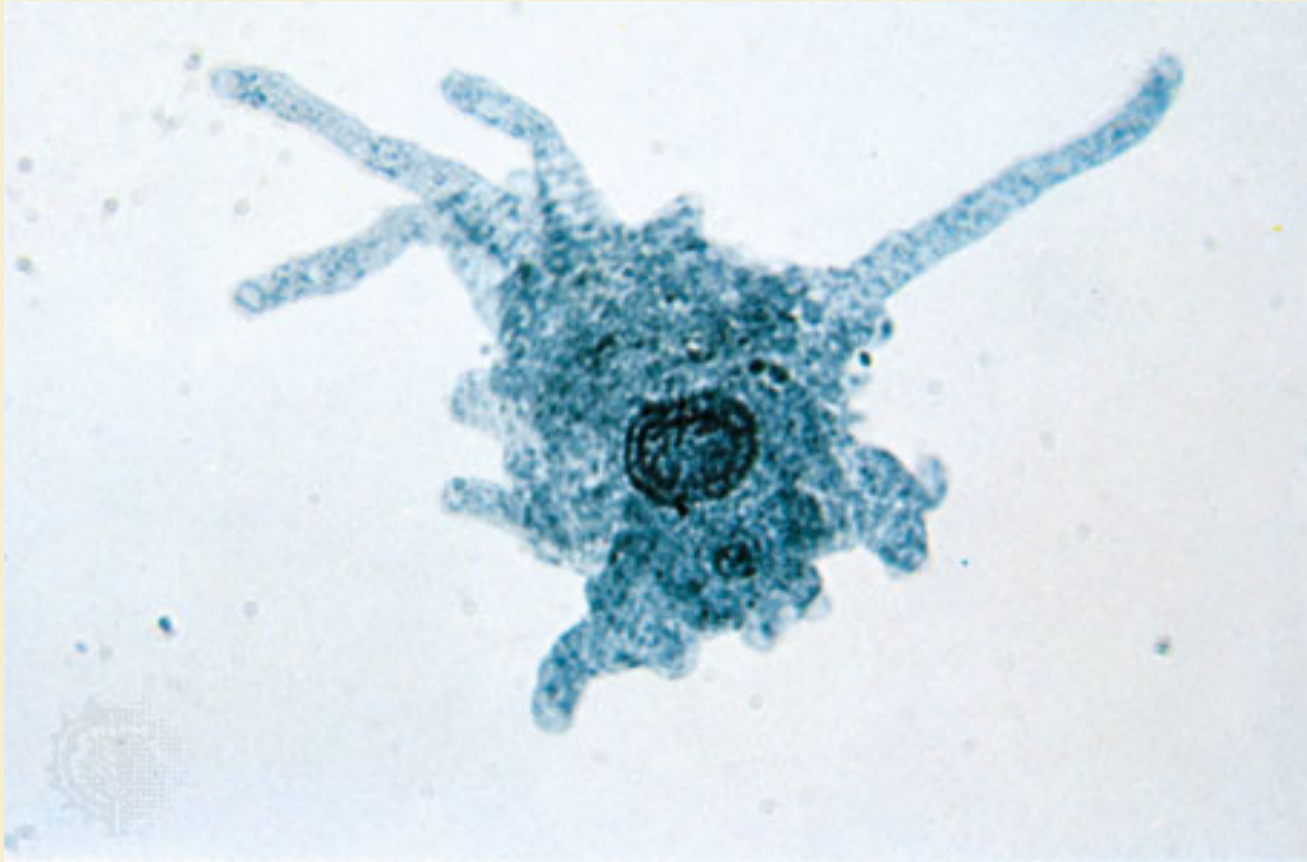
Livingstone, © BIODIDAC.

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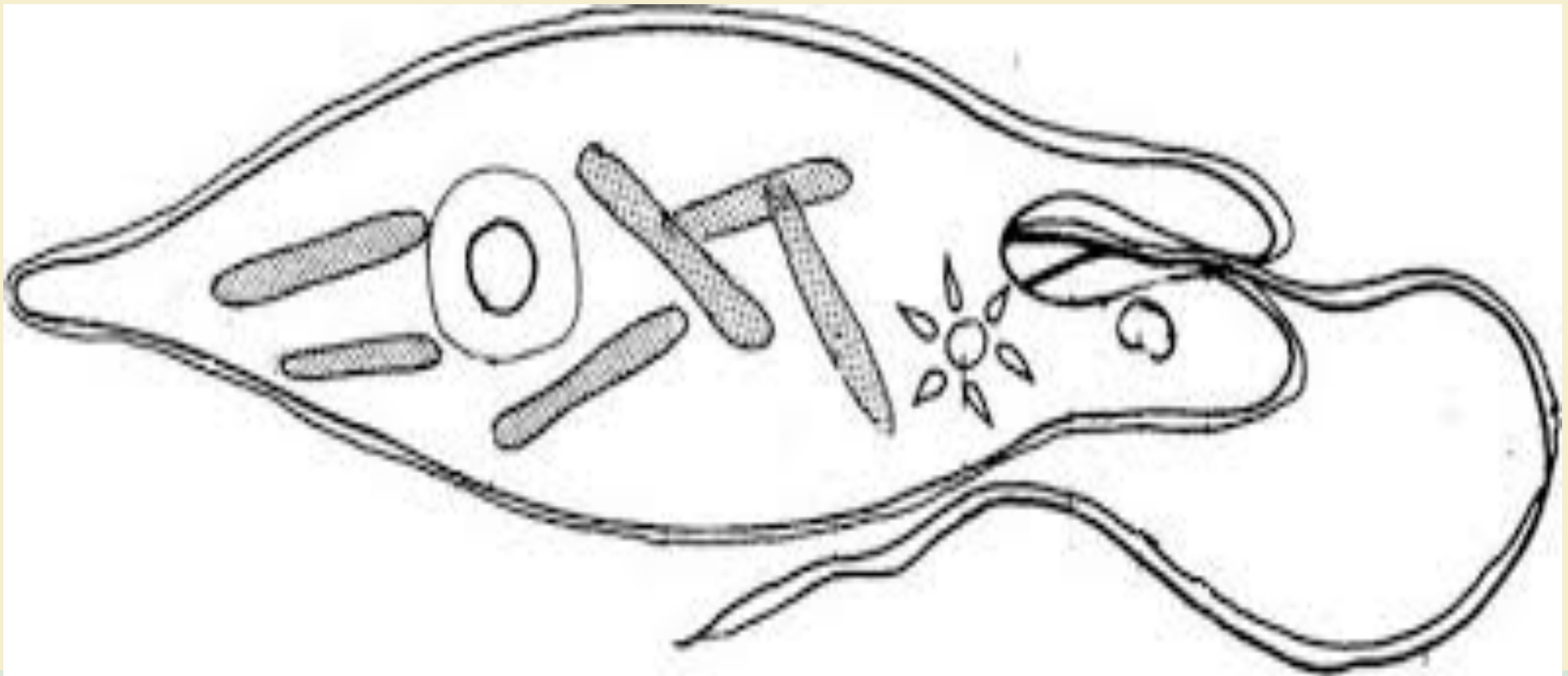




# Name that Structure



# Name that Structure



# 5 Kingdoms of Life

✓ Plants

✓ Animals

Fungi

✓ Protists

Monera



## Monera

Monera include organisms such as BACTERIA. Monera cells **do not** have a nucleus (brain). They are called prokaryotes, which means “before a nucleus.” They are the only kingdom that lacks a nucleus. They also don’t have any organelles (“little organs”) to help with life processes. Monera are the simplest kinds of organisms. They have only one cell (single-celled organism). Some Monera are producers. Others are consumers. *Monera = Bacteria*



1. What is a prokaryote cell type?

**A Cell That LACKS/ Does not have a NUCLEUS**

---

2. What kingdom is bacteria located in?

**MONERA**

---

## Fungi

Fungi isn't a plant or an animal. Fungi have their own KINGDOM. Fungi **do not** make their own food, they are heterotrophic. Fungi absorb the nutrients around them. Most fungi are multicellular. Fungi include mushrooms, mold and yeast. Some fungi are used to make medicine. Others help recycle nutrients in the soil by decomposing material around them. We also can eat and drink fungi, but not all because some are toxic.



1. Are fungi unicellular or multicellular?

**Most are MULTICELLULAR**

---

2. What are some examples of fungi?

**Mushroom, Mold and Yeast**

---

3. Can fungi produce their own food?

**NO! They absorb it into their structure.**

---


## D. Fungi

- Number of cells: **Multicellular**
- Cell type: Eukaryotic
- Energy source: **Heterotrophic**



Absorption & Decomposers

Ex. Mushrooms, mold, yeast



**FUNGI are NOT Plants  
They DO NOT perform  
Photosynthesis!**

## Corn Smut



## Death Cap







Mold

## Athlete's Foot

Athlete's foot is marked by red, itchy patches and white flaking skin.



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Youtube:

[https://www.youtube.com/watch?v=y3dW\\_f6ghkk](https://www.youtube.com/watch?v=y3dW_f6ghkk)

<https://www.youtube.com/watch?v=bl9aCH2QaQY>

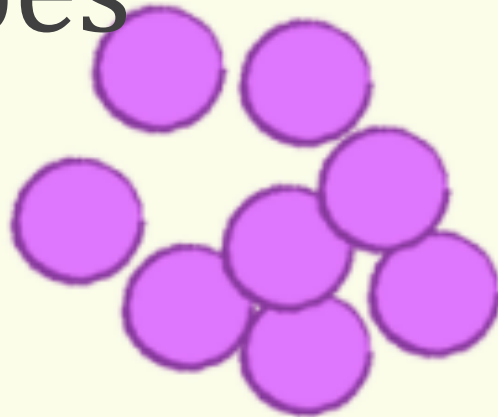
## E. Monera

- Number of cells: **Unicellular**
- Cell type: **Prokaryotic**
- Energy source: Heterotrophic or Autotrophic  
-Absorption

Ex. Bacteria (E.coli)



# Many Shapes



**Cocci**



**Bacilli**



**Spirilla**

# Found Everywhere



Borrelia burgdorferi bacteria



Deer tick is infected by the bacteria



Male tick



Female tick

Human is infected by bite of infected tick







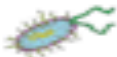




A:  
[https://www.youtube.com/watch?v=kxM\\_9DL2GYw](https://www.youtube.com/watch?v=kxM_9DL2GYw)

R9:  
<https://www.youtube.com/watch?v=MaAmNE9oesA&t=95s>



WHAT HAVE  
YOU LEARNED?

Use the word bank above and your class notes to complete the chart below.

| Organism   | Cell Type<br><i>Prokaryote/Eukaryote</i> | Cell Number<br><i>Unicellular/Multicellular</i> | Energy Source<br><i>Autotroph/Heterotroph</i> | Kingdom |
|--|--|---|---|---------|
| Mushroom<br>                         |  |   |   |         |
| Tree<br>                             |  |   |   |         |
| Bacteria<br>                         |  |   |   |         |
| Paramecium<br><br><i>Locomotion:</i> |  |   |   |         |
| Frog<br>                             |  |   |   |         |
| Euglena<br><br><i>Locomotion:</i>  |  |   |   |         |
| Amoeba<br><br><i>Locomotion:</i>   |  |   |   |         |