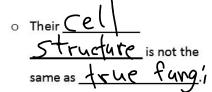
Unit 4: Single-Celled Organisms	NOTES: 4.04
gus-like Protists	
QUESTIONS:	
Can you describe the various classifications of protists and explain how so determine which category a protist belongs in?  Can you describe the specialized organelles used by protists that allow the with just a single cell?	
already know?	
sts can be put into three categories: animal-like,   ant- ke,& fungus-like  al-like protists are similar to animals because they are heterotronost can move to obtain their food.   -like protists (or algae) are similar to plants because they are to they are t	•
protists	
Funguslike protists are  heterotrophs that  absorb nutrients from  dead or decaying  organic matter.	
	Agus-like Protists  QUESTIONS:  Can you describe the various classifications of protists and explain how so determine which category a protist belongs in?  Can you describe the specialized organelles used by protists that allow the with just a single cell?  already know?  sts can be put into three categories:  Ant -

environments, where they absorb food through their

Name:	Unit 4: Single-Celled Organisms	NOTES: 4.04

## • What makes them different from fungus?



## True Fungi

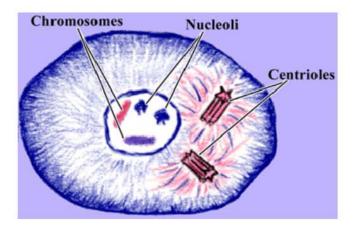


## **Fungus-like Protist**



- Funguslike protists have no Chitin in their cell walls. Chitin is a substance found in the Cell walls of true fungus to give them rigidity and Structural Support
- Funguslike protists do have Centrioles in their cells.

  Centrioles are found in Animal Cells and help them to divide and reproduce. Centrioles are not found in the cells of true fungi.
  - Means they have <u>fungus-like</u> and animal-like characteristics.



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NOTES: 4.04

Fungus-like protists can be classified into different categories.
Fungus-like Protists
5/ime molds water molds
Slime mold (cells) Acellular Slime mold (hot cells)
Found in am environments that are rich in Organic matter.  • Examples:  • Examples:  • Examples:  • Quecaying on the
Play a major role in recycling organic materials in the environment.  In other words, they help things to rot and decompose.  Help turn dead organic material into Fich topsoil.

Name: \_\_\_\_\_Unit 4: Single-Celled Organisms

NOTES: 4.04

Cellular Slime Molds				
• Slime molds in which all the ind いししは ual cells maintain				
Separation from each other by a <u>Cell membrane</u>				
Same way Your body is set up (trillions of cells [ iving and				
Working together, but separated				
from each other by Cel				
Membrane).				
• Live most of their lives as Single - celled				
organisms in soil that look like <u>amoeba</u> .				
<ul> <li>When food is a bundant, they live</li> </ul>				
a one and rapidly 9 row and				
divide to				
reproduce. Spores Food (bacteria)				
• When food is SCARC Spores Free-living amoebae				
they send out Chemica				
Signals to other				
slime mold cells to				
aggregate Colls				
(join together).				
Thousands of slime mold .				
cells then aggregate				
produce a fruiting				
body , and release				
Spares				
· Each spore grows into a new am oeba-like Single-celled protis				
and the mode frame and				
• Extremely unique because they have a WNICE HUAT, COONIGL.				
and Multicellular stage. (One Cell)				

Name:	Unit 4: Single-Celled Organisms	NOTES: 4.04
Acellu	ılar Slime Molds	
•	Slime molds in which many cells fuse  together to form  large (ellswith many Nuclei in a single cell.  Similar to Cellular slime molds, they live most of their lives as  Unicelular amseba-like cells living in	- 50: l
	Unlike cellular slime molds, when they aggregate, the	
	blob-like structures with Many hycle.  The Multi- huclated  blobs are called  plas modia  (singular = Plas modia)  A single plasmodium  made up of what	Pseudoplasmodium forms  Pseudoplasmodium differentiates into foot,
	used-to-be millions of  cells can grow to be  Several  Meters in diameter!!!  The plasmodia produce several small fruiting bodies  Spares.	that release

Name:	Unit 4: Single-Celled Organisms	NOTES: 4.04
Water Molds		
· white, tuz-	Z y molds that thrive on dead	or <u>decaying</u>
organic matter in <u></u> <u> </u>	Her	
fungal <u>mold</u> (ie: bread		
on Their cells can be multi- nuclea	<b>经验证的证据的证据的证据的证据</b>	
o Cell walls made of Cellulose instead of Chi		
o Produce Spo with Lage	ores ,	
that can SW	m .	1.4
1 1 1	s plant parasites on le grapes, tomatoes, potatoes, corn an	
• Example: Phytophthora	<u>infestans</u>	
Potato Fam	reat Mine	
of 1845-1846 in Teland  Potatoes were ori	iginally.	The State of the s
<del>*</del>		nerica, but were
introduced to Eur		D(plers
<ul> <li>Potatoes became</li> </ul>		of Ireland and formed the
livelihoods of mos	V' 1 ( V ( )	armers.
o The summer of	was unusually CG()	& <u>We                                   </u>
growing condition	ns for Water Mo	Ids.

Effects:

■ Destroyed about 60% of the Irish potato crop.

of more than a million people.

■ Led to the immediate

immigration of about 1,5 million Irish to America

Americans today (almost 1206 of our population) can trace their ancestry back to Treland.

Thanged the ethnic, religious, and political character of most east coast cities.

