

7-2 Eukaryotic Cell Structure
Endoplasmic Reticulum

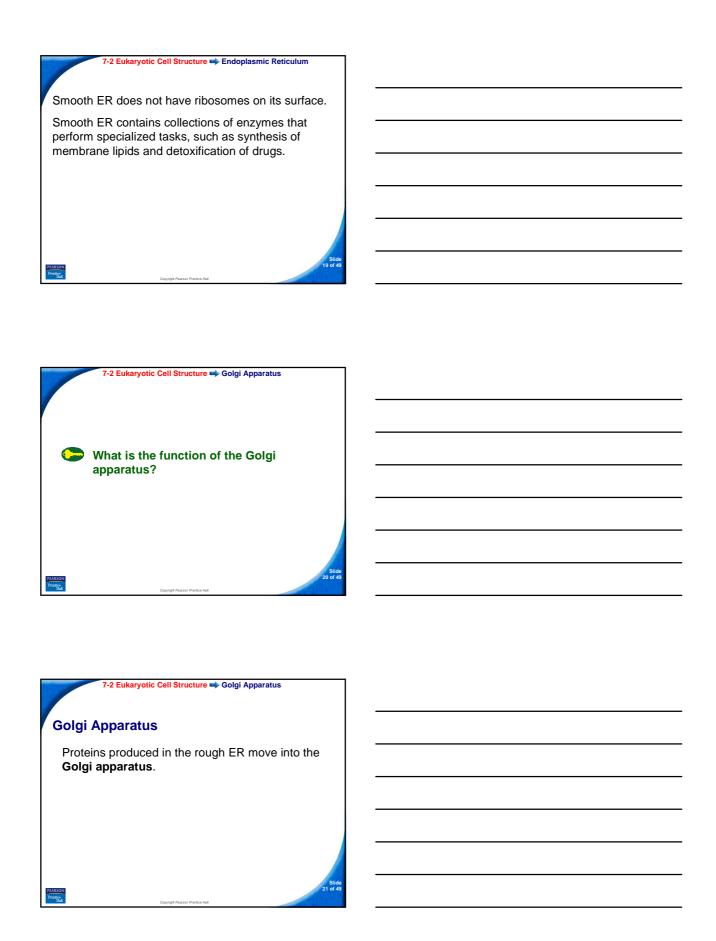
There are two types of ER—rough and smooth.

The portion of the ER involved in protein synthesis is called rough endoplasmic reticulum, or rough ER.

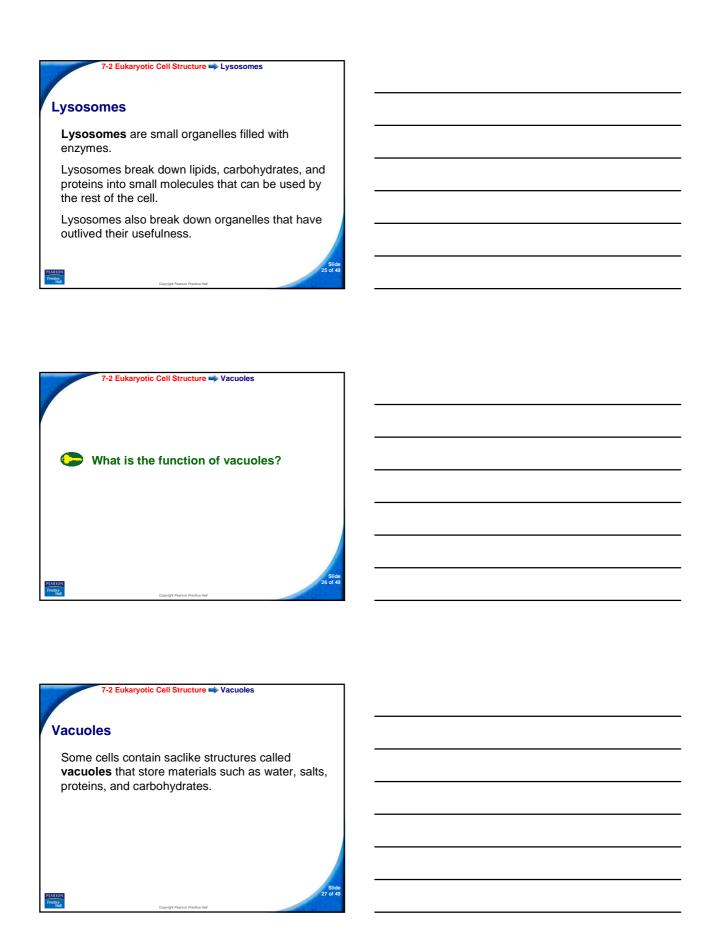
Ribosomes are found on the surface of rough ER.

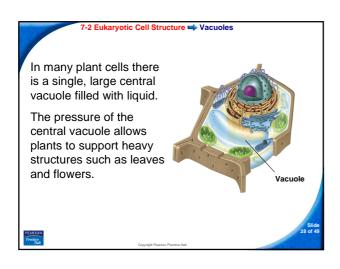
Rough ER is abundant in cells that produce large amounts of protein for export.

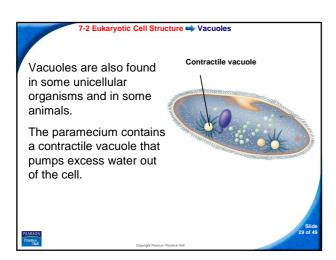
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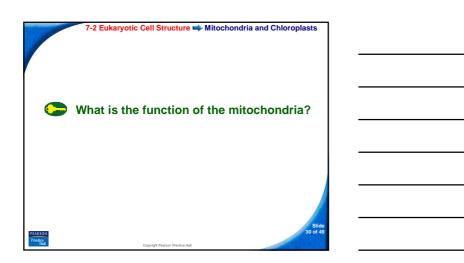


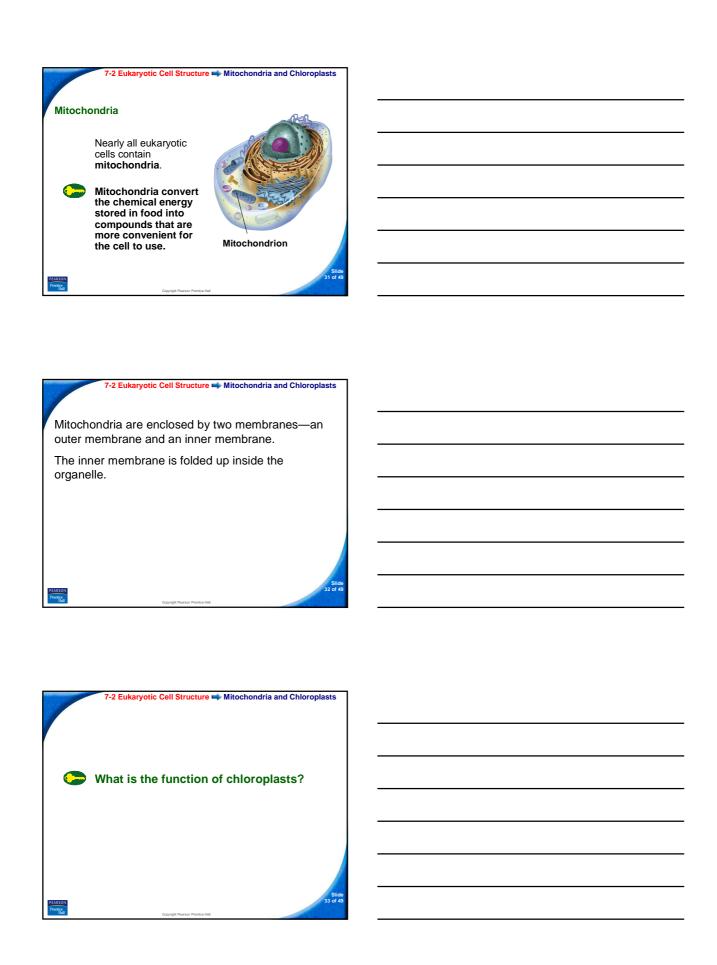


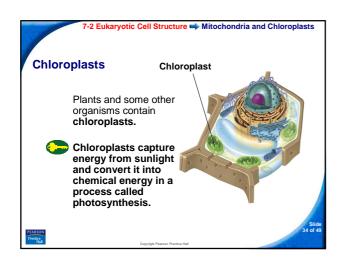


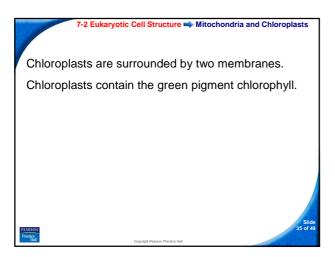


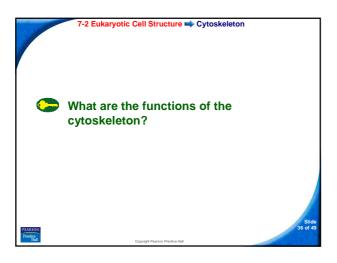


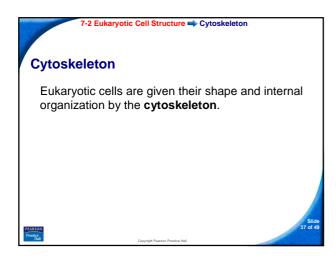


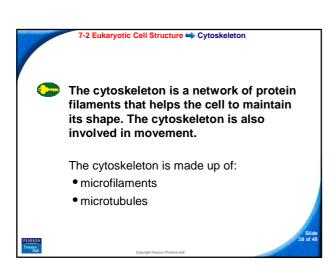


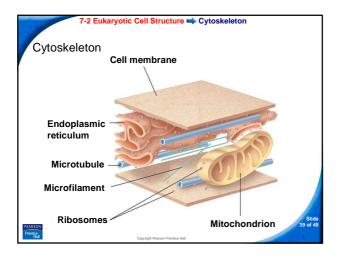




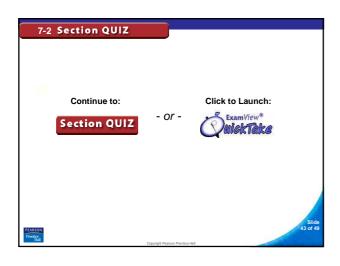


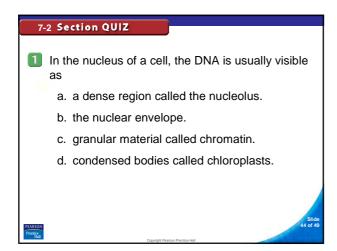


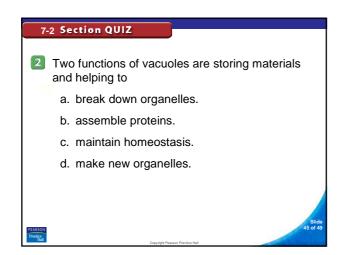




Microfilaments Microfilaments: • are threadlike structures made up of the protein actin. • form extensive networks in some cells. • produce a tough, flexible framework that supports the cell. • help some cells move. 7-2 Eukaryotic Cell Structure - Cytoskeleton Microtubules Microtubules are hollow structures made up of proteins known as tubulins. Microtubules: • maintain cell shape. • are important in cell division. • build projections from the cell surface—cilia and flagella—that enable some cells to swim rapidly through liquids. In animal cells, structures known as centrioles are formed from tubulin. Centrioles are located near the nucleus and help to organize cell division.







7-2 Section QUIZ	
3 Chloroplasts are found in the cells of	
a. plants only.	
b. plants and some other organisms.	
c. all eukaryotes.	-
d. most prokaryotes.	
aest pronaryeres.	
	-
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7-2 Section QUIZ	
7-2 Section Quiz	
4 Which of the following is NOT a function of the	
Golgi apparatus?	
a. synthesize proteins	
b. modify proteins	
c. sort proteins	
d. package proteins	
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7-2 Section QUIZ	
5 Which of the following is a function of the cytoskeleton?	
a. manufactures new cell organelles	
b. assists in movement of some cells from one	
place to another	
c. releases energy in cells	-
d. modifies, sorts, and packages proteins	
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