

## CELL THEORY:

1. All living things are composed of cells.
2. Cells are the basic units of structure and function in living things.
3. All cells are produced from other cells.

[CH.4&amp;23]

ATK / 1200 DEF / 1600

81226880

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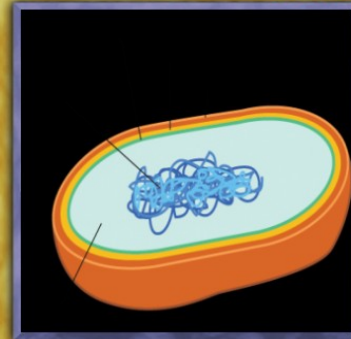
[CH.4&amp;23]

Limitations on size: Length of time in N out, minimum energy, amount of waste

ATK / 1100 DEF / 1300

26595361

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[CH.4&amp;23]

All cells have a cytoplasm, DNA, and plasma membrane

ATK / 1000 DEF / 1100

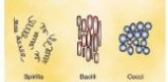
01063645

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## Shape

Prokaryotic cells have three different shapes

Bacterial Shapes



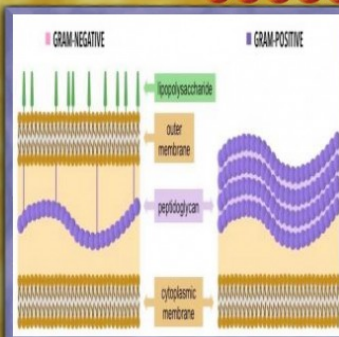
Spiral Oval Round

[CH.4&amp;23]

ATK / 1700 DEF / 1200

24784757

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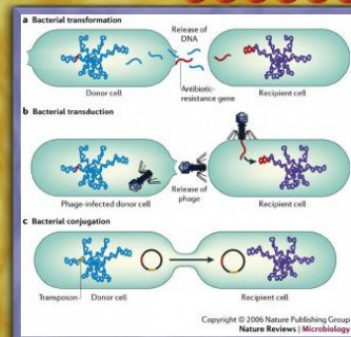


[CH.4&amp;23]

ATK / 1600 DEF / 2000

05017206

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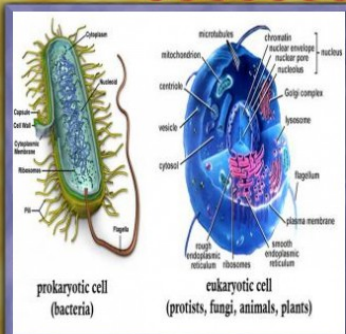
[CH.4&amp;23]

a. From Environment  
b. From viruses  
c. from other cells

ATK / 1700 DEF / 2100

26982302

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[CH.4&amp;23]

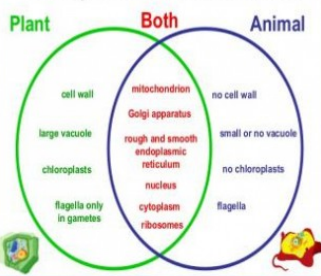
Archaea- ether linkage, no peptidoglycan, Diff. DNA replication, gene exp.  
Bacteria- ester linkage, yes peptidoglycan, Diff. DNA Rep., Gene expression

ATK / 2400 DEF / 2200

12475240

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## Compare and Contrast

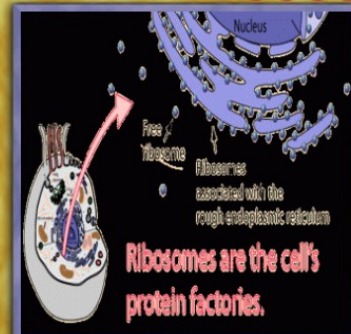


[CH.4&amp;23]

ATK / 2500 DEF / 2000

63172677

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[CH.4&amp;23]

Ribosomes are made of two subunits that hold rRNA

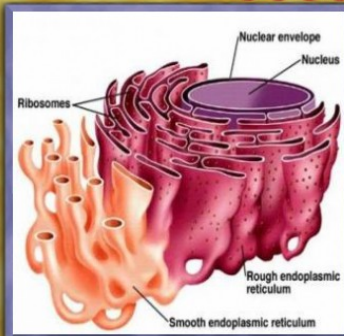
ATK / 1500 DEF / 900

56525192

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# BIOL 1110- 4.4.1



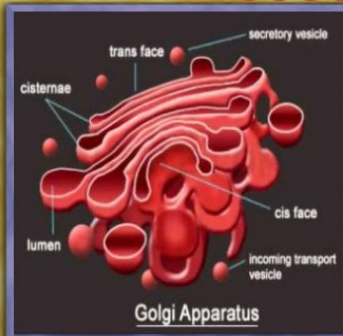
[CH.4&23]  
Smooth is storage  
Rough is packaging

ATK/1600 DEF/1100

62329715

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# BIOL 1110- 4.4.2



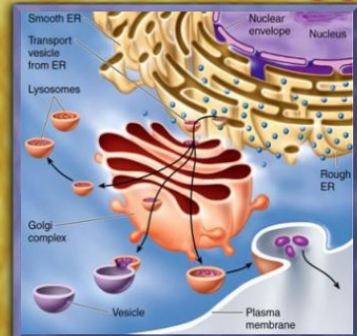
[CH.4&23]  
Packaging and collecting proteins to the outside of the cell or other areas

ATK/1400 DEF/1100

79815553

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# BIOL 1110- 4.4.2 #1



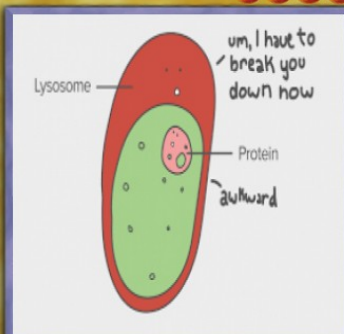
[CH.4&23]

ATK/ 500 DEF/ 900

25413516

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# BIOL 1110- 4.4.3



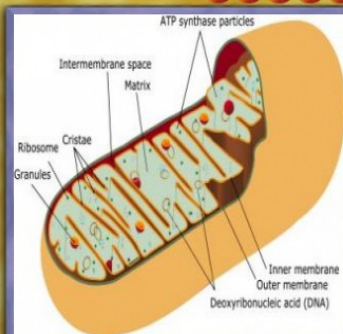
[CH.4&23]  
Lysosomes, Microbodies, and Proteasomes  
breakdown or digest destructive enzymes

ATK/1600 DEF/1300

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# BIOL 1110- 4.5.1



[CH.4&23]

ATK/1300 DEF/1200

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# BIOL 1110- 4.5.2



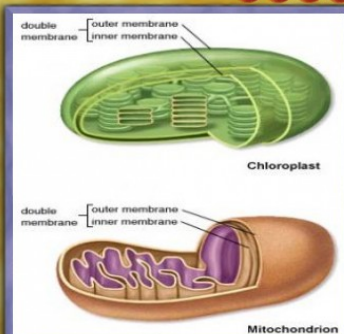
[CH.4&23]

ATK/1700 DEF/1400

79955315

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# BIOL 1110- 4.5.3



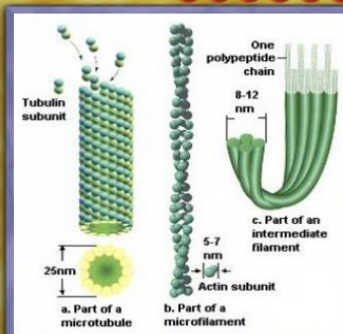
[CH.4&23]  
Both were separate bacteria from the way distance past

ATK/1600 DEF/1750

03380194

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# BIOL 1110- 4.6.1



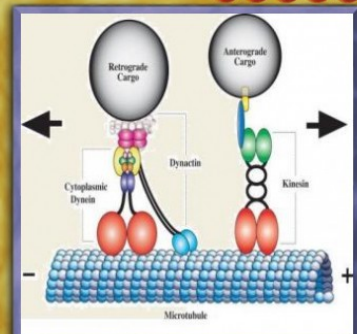
[CH.4&23]

ATK/1600 DEF/1750

32002045

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# BIOL 1110- 4.6.2



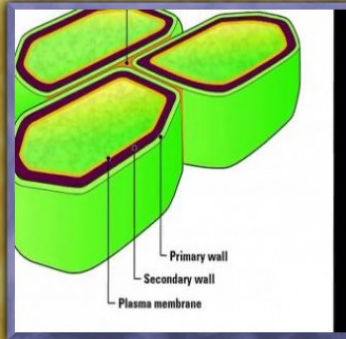
[CH.4&23]  
Like a highway

ATK/2100 DEF/1800

24361863

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# BIOL 1110- 4.7.1



[CH.4&23]

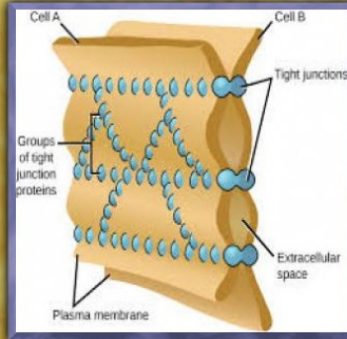
ATK/2000 DEF/1700

16299813

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B-0A  
Y0-6

# BIOL 1110- 4.8.2 #1



[CH.4&23]

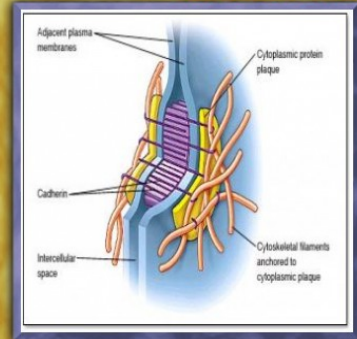
ATK/2500 DEF/2300

58586152

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B-0A  
Y0-6

# BIOL 1110- 4.8.2 #2



[CH.4&23]  
*Anchoring junction*

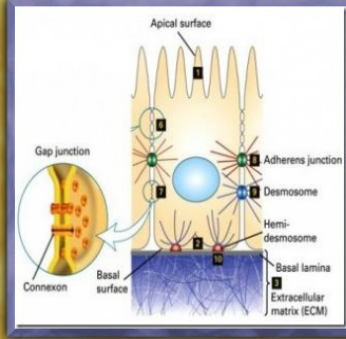
ATK/1800 DEF/1800

10751814

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B-0A  
Y0-6

# BIOL 1110- 4.8.2 #3



[CH.4&23]  
*Communicating Junction*

ATK/2000 DEF/2200

80097025

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B-0A  
Y0-6