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a. Archaea and
bacteria have different
membrane lipids. b.
Both archaea and
bacteria generally lack
membrane enclosed
organelles. c. The cell
walls of archaea lack

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peptidoglycan. d. Only bacteria have histones associated with DNA. e. Only some archaea use CO₂ to oxidize H₂ releasing methane

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Chapter 27 - Bacteria and Archaea 1.

Eukaryote

Classification Old 5

Kingdom system

Prokaryote Monera,

Protists, Plants, Fungi,

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Animals New 3 Domain system reflects a greater understanding of evolution ...

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...

Figure 27.17 Exploring: Major Groups of Bacteria. Chlamydias - These bacteria are parasites that live within animal cells. Chlamydia trachomatis causes blindness and

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nongonococcal urethritis by sexual transmission.

Spirochetes - These bacteria are helical heterotrophs.

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Chapter 27 Bacteria and Archaea. Multiple-Choice Questions. 1) Mycoplasmas are bacteria that lack cell walls. On the basis of this structural feature,

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which statement concerning mycoplasmas should be true? A) They are gram-negative. B) They are subject to lysis in hypotonic conditions. C) They lack a cell membrane as well. D)

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...

The cell walls of archaea contain polysaccharides and

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proteins, but lack peptidoglycan. The Gram stain is a valuable tool for identifying bacteria based on differences in their cell walls. Gram-positive bacteria have simple cell walls with large amounts of peptidoglycans.

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The bacteria use the

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archaea's waste products. In turn, the

bacteria produce compounds that

facilitate methane consumption by the archaea. Each year, these archaea

consume an estimated 300 billion kg of methane, a major greenhouse gas.

Concept 27.3 Molecular systematics is illuminating prokaryotic phylogeny

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and Archaea .

Overview. 1. The

chapter opens with
amazing tales of life at
the extreme edge.

What are the “masters
of adaptation”?

Describe the one case
you thought most
dramatic. Concept 27.1

Structural and
functional adaptations
contribute to

prokaryotic success . 2.

Which two domains
include prokaryotes? 3.

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NOTES FOR BIOLOGY

1202 DR. STEVEN

POMARICO,

INSTRUCTOR CHAPTER

27 Bacteria and

Archaea The organisms

that make up the two

prokaryotic domains

(Bacteria and Archaea)

were the first

organisms to arise on

earth (about 3.5 billion

years ago). Ancestral

characteristic

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similarities because they were probably here before prokaryotes or similarities because of lateral gene transfer (maybe not all the ...

Chapter 27: Bacteria and Archaea

Common Shapes of Prokaryotes
Cell Walls:
Plant - Cellulose
Fungi - Chitin
Bacteria - Peptidoglycan
Archaea - Polysaccharides
Classifying Bacterial

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Species with the Gram
Stain: - Based on cell
wall composition -
GRAM POSITIVE:
simpler walls, large
amount of
peptidoglycan - GRAM

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Exam Instructions.
Choose your answers
to the questions and

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click 'Next' to see the
next set of questions.

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Terms.

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What's a major

difference between the

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cell walls of the
Archaea and those in
the domain Bacteria?

Archaeal cell walls
lack peptidoglycan.

p557: Compare gram-
positive and gram
negative bacteria for
the amount of
peptidoglycan in their
cell walls and their
structural complexity.

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Chapter 27: Bacteria and Archaea 1. What are the “masters of adaptation”?

Prokaryotes can tolerate extreme conditions.

Deinococcus radiodurans can survive 3 million rads of radiation, and *Picrophilus oshimae* can grow at a pH of 0.03 (acidic enough to dissolve metal). Some prokaryotes have even been found

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Chapter 27: Bacteria and Archaea - 4 -

Concept 27.3 A great diversity of nutritional and metabolic adaptations have evolved in prokaryotes

22. Prokaryotes can be placed in four groups according to their mode of nutrition, which is how they take in carbon and how they obtain energy. List

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each group below, and

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BACTERIA AND
ARCHAEA by
Rebecca Liu

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Edition) chapter 27
notes; chapter 26
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Powerpoint; ap biology
chapter1 ppt; Biology
Content. Ch. 17
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Molecular docking.

Amber. AUTODOCK.

Molinspiration. AP

Biology Forums.

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polysaccharides and
proteins Capsule-
found in some gram-
positive and gram-
negative. Function: To
protect the cell from
dehydration. Bacteria

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Bacteria And Archaea To be able to differentiate the cell walls of gram-positive and gram-negative bacteria. 27.2 Rapid reproduction, mutation, and

Quia - 9AP Chapter 27 - Bacteria and Archaea (detailed)

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