

Viruses, bacteria, archaea (Ch. 4, 17, 24)

Taxa:

Bacteria

- Cellular
- Contain double-stranded DNA genetic material used to store information
- Contains bacterial-type ribosomes for building proteins
- Cell walls are made of peptidoglycan
- Can pass plasmids through horizontal gene transfer
- Chromosome – a loop of DNA
- Outer membrane protects against antibiotics and has toxic lipopolysaccharides (LPS)

Cyanobacteria – earliest known life, prokaryotic, bacteria capable of photosynthesis

- Originators of most commonly used type of photosynthesis
- Stromatolites are mineral formations left by cyanobacteria colonies and are some of the oldest fossils
- Early cyanobacteria added a lot of O_2 to atmosphere, killing off many other bacteria

Alpha proteobacteria – prosthoeae bacteria that can oxidize organic molecules in the environment, converting them to a life-sustaining supply of carbon and energy

- Evolved aerobic respiration
- Other species evolved nitrogen fixation (bean plants “generate their own fertilizer”)
- Many live within plant roots in the bean family

Archaea

- Diverse cells, includes a broad mix of bacterial and eukaryote-like features
- Many species adapted to extreme environments and live in animal intestines

Terms:

Virus – an infective agent consisting of a nucleic acid molecule in a protein coat

- Can reproduce but must rely on a host cell
- Have their own DNA or RNA
- Populations can evolve rapidly
- Not cellular

“RNA world” – some viruses originate from earliest RNA-based “life”

“DNA world” –

“Prokaryote” – a microscopic single-celled organism that has neither a distinct nucleus with a membrane nor other specialized organelles (includes bacteria and cyanobacteria)

Viruses And Archaea Study Guide Answer Key

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