

MICROBIOLOGY

Discover the science of microorganisms

Organisms & Evolution

- Microbiology: The study of living things too small to see with the naked eye:
 - The four main divisions are Bacteria, archaea, eukaryotes, and viruses
 - Each division is DNA & RNA, except for the viruses that are one of the other three



Characteristic	Bakterien	Archaea	Eukaryota	Prokaryota
Size	0,2 – 10 mikrometer	0,2 – 10 mikrometer	0,1 – 100 mikrometer	0,200 – 1000 mikrometer
Nucleinsäure	None	Yes	Yes	None
Chromosomal DNA	DNA	DNA	DNA	DNA or RNA
Lipid bilayer	None	Yes	Yes	Yes/no/yes
Reproduction	Binary fission, vegetat.	Binary fission, binary fission, budding	Binary fission	None
Microorganismen-organismus	None	None	None	None
RNA – polynucleotid	None, 10 mikrometer	None, complex, 10 mikrometer	None, complex, 10 mikrometer	Prokaryote, no proteinaceous
Protein synthesis	None	None	None	None
Membrane, membrane cell walls	None	None	None	None
Cell wall	Prokaryotic	Prokaryotic, eukaryotic	Prokaryotic, eukaryotic, membrane	None

Bacterio

- Were the first cells on Earth
- Contain over 50 different phyla (major groupings)
 - Are the most abundant form of life
 - People have more bacteria growing on/in them than human cells
- Incredibly diverse
 - There are thousands of different species in one gram of soil
 - Live in mixed environments, including the deep sea, underground, and intergalactic

Archaea

- Relatively uncommon with fewer known species.
- Most common in extreme environments (e.g., deep-sea vents and high salinity lakes).
- Combine some features of prokaryotes and eukaryotes.
- Often known as extremophiles and will grow when other organisms cannot.

Ex: Halophilic, salt loving; methanophilic, sulfur loving; thermophilic, heat loving; lithotrophic, rock loving; methanophilic, methane loving; dominican proto

Experiments

- May be simple cells (e.g., yeast, algae, and amoebae) or multicellular (e.g., fungi, plants, and animals).
 - Contain membrane-bound subcompartments that separate specific functions, particularly the nucleus.
 - Division includes microscopic organisms previously belonging to the Monera kingdom.

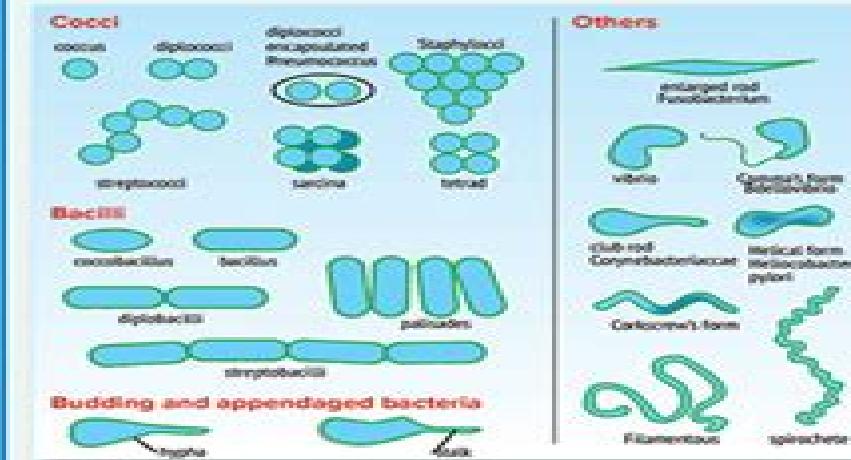
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- Many viral viruses are not alive as they are obligate parasites and cannot replicate without other cells.
- Different viruses target all three domains.
- Viruses may use DNA or RNA as genetic material and use molecules from the host cell to make more virus particles, ultimately killing the host.

Shapes & Types 6

Bacterial & Archaeal Cell Shapes & Growth Characteristics

- **Convolv.** Spherical
- **Bladderw.** Boot-shaped
- **Spiralw.** Spool-shaped
- **Phreniumw.** Multiple whorls are present



- Diplotax: meaning two; a diplotaxose is two cocci that have grown together
- Tetrads: Four cocci that grow together in a square
- Strands: Eight cocci that grow together in a cube
- Streptococci: meaning chains; a streptococcosis is cocci that have grown together in a chain
- Staphylococci: meaning clusters; a staphylococcosis is cocci that have grown to collect in a cluster

Eukaryotic Types

- **Chloroplasts:** Short chains used for locomotion and for feeding.
- **Flagellates:** Long flagella used for locomotion; usually there are only one or two per cell.
- **Slime molds:** Single cells living in a damp environment (e.g., under leaves in a forest) that come together during reproduction.



- **Amoebae:** Free-living cell that can change its shape and engulf its prey
- **Prokary:** Non-plant, non-fungal organisms (e.g., bacteria and archaea)
- **Algae:** Photosynthetic organisms with a nucleus and chloroplasts. Many are single cells, others are multicellular, but many forms are still microscopic (i.e., *volvox*)
- **Eukaryote:** Photosynthetic eukaryote with a nucleate cell wall often with a complex syncytial pattern
- **Yeasts:** Eukaryotes, single-celled, round fungi
- **Mold:** Multicellular fungus which forms root-like projections (hyphae) that may contain cross-walls (septate) or not (nonseptate)

Wind Shear

■ **Efficiency:** Typical memory access and I/O operations require microseconds, while RAM requires nanoseconds.

Cl's Microbiology Study Guide

**Lansing M. Prescott, John P.
Harley, Donald A. Klein**

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