

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 of life are Bacteria, archaea, eukaryotes, and viruses
 - Each division is DNA & RNA, except for the viruses those are some of the other things



Characteristic	Prokaryotes	Eukaryotes	Archaea	Viruses
Size	0.2—5 micrometers	0.2—5 micrometers	0.2—5 micrometers	0.002—0.2 micrometers
Nucleolus	None	Yes	None	None
Genetic material and chromosomes	DNA	DNA	DNA	DNA and RNA
Logistic behavior	None	Quiescent	None	None
Reproduction	Binary fission	Binary fission, meiosis, mitosis, meiosis	Binary fission	None
Metabolism—general organization	None	None	None	None
RNA—polymerase	None, 30 subunits	None, complex, 16 subunits	None, complex, 12 subunits	Dependent on proteinaceous
Chromatin—histone bridge	None	None	None	None
Membrane—nuclear envelope	None	None	None	None
Cell wall	Peptidoglycan	Prokaryotic cell壁	Cellulose, heteropolysaccharides, protein	None

Bacteria

- 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 them than human cells
- Extremely diverse
 - There are thousands of different species in one gram of soil
 - Live in most environments, including the deep sea, underground, and intergalactic space

Architecture

- 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: Halophiles, salt loving; sulfophiles, sulfur loving; thermophiles, heat loving; lithophiles, rock loving; methanophiles, methane loving; dominants, proto

Extraneousness

- May be single 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.

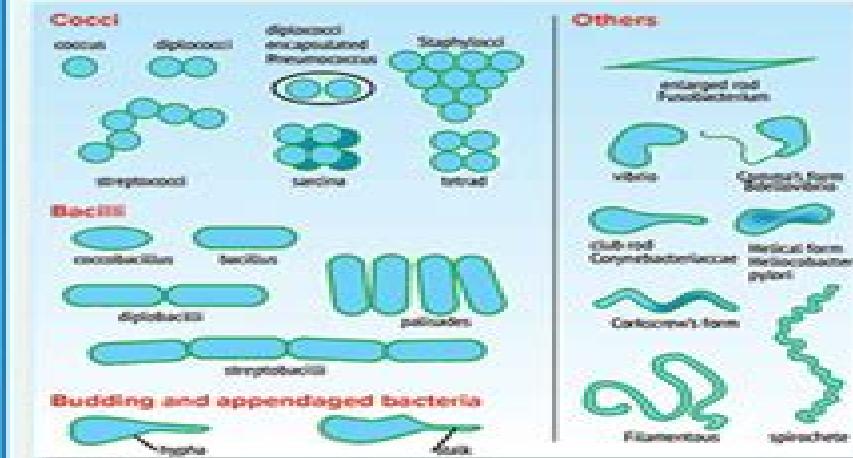
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- Many viral viruses are not alive as they are obligate parasites and cannot replicate without other cells.
- Different viruses target all three domains
- Viruses may use DNA or RNA as genetic material and use molecules from the host cell to make more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



- Diplo- \rightarrow Prok: meaning two; a diplobionte is two cells that have grown together
- Tetrado- Four cells that grow together in a plane
- Stenocles: Eight cells that grow together in a cube
- Stenopelt- Prok: meaning cluster; a stenopeltobionte is a cell that have grown together in a cluster
- Staphylo- \rightarrow Prok: meaning: cluster; a staphylocionte is a cell that have grown to collect in a cluster

Marketplace Types

- **Chloroplasts:** Small cell-like used for photosynthesis and for recycling.
- **Microvilli:** Long finger-like used for locomotion; usually there are only one or two per cell.
- **Miller module:** 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)

Virtual Shopping

- **Efficiency:** Spatial arrangement and grouping of small microcolonies that can appear multi-chambered

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