

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 that are one of the other three



Characteristic	Bakterien	Archaea	Eukaryota	Prokaryota
Size	0,2 – 5 mikrometer	0,2 – 5 mikrometer	5 – 100 mikrometer	0,200 – 0,500 mikrometer
Nucleinsäure	None	Yes	Yes	None
Chromosomal DNA	DNA	DNA	DNA	DNA or RNA
Lipid bilayer	None	Yes	Yes	Yes/no membrane
Reproduction	Binary fission, vegetat.	Binary fission, vegetat. oder endosymbiot.	Binary	None
Microorganismen	None	None	None	None
Prokaryotische organelles	None	None	None	None
RNA – polymeerase	None, 200 – 3000 kDa	None, complex, 100 kDa	None, complex, 12 kDa	Prokaryotische genetische material
Genom nicht doppelsträngig	Yes	Yes	Yes	None
Minimales membran self-suffiz.	Yes	Yes	Yes	None
Cell wall	Peptidglykans	Proteinolipids, teichinsäure, teichoic acids	Chitosan, carbohydrate, 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, mats.

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.

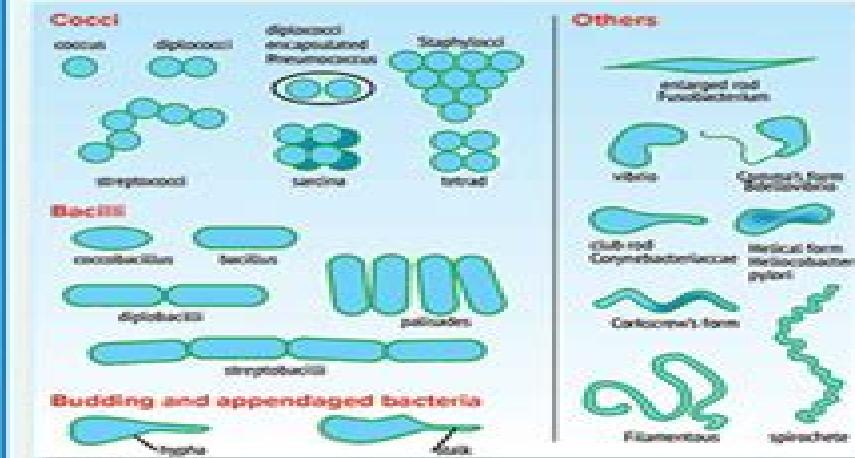
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- Many viral viruses are not alive as they are obligate parasites and cannot replicate without other cells.
- Different viruses target all three domains.
- Viruses may use DNA or RNA as genetic material and use molecules from the host cell to make 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
- Stenopyle- Prok: meaning cluster; a stenopyleonite is a cell that have grown together in a cluster
- Staphylo- \rightarrow Prok: meaning: cluster; a staphyloconite 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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