

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	Binary fission, meiosis, mitosis, endosymbiosis	Meiosis	None
Microorganismen	None	None	None	None
Prokaryotische organelles	None	None	None	None
RNA – polymeerase	None	None	None	None
Chromatin/nukleinsäure Verbindungen	None	None	None	None
Membranen zwischen Zellkernen	None	None	None	None
Cell wall	Peptidglykans	Proteinolipids	Proteinolipids, heteropolysaccharide, mucopolysaccharide	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, patch

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.

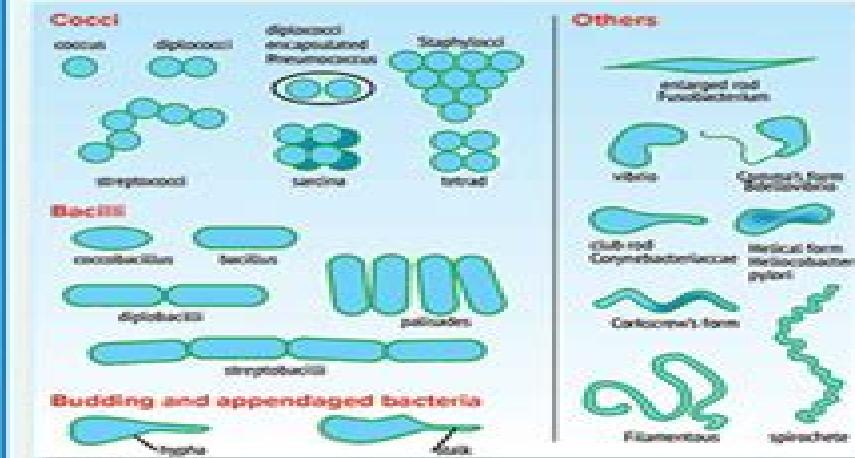
Writings

- 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

Microbiology Study Guide On

Jeffrey C. Pommerville

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Microbiology Study Guide Set Jacquelyn G Black, 1996-08-01

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Alcamo's Fundamentals of Microbiology Jeffrey C. Pommerville, 2012-01-20 Ideal for allied health and pre nursing students. Alcamo's Fundamentals of Microbiology Body Systems Second Edition retains the engaging student friendly style and active learning approach for which award winning author and educator Jeffrey Pommerville is known. Thoroughly revised and updated the Second Edition presents diseases complete with new content on recent discoveries in a manner that is directly applicable to students and organized by body system. A captivating art program includes more than 150 newly added and revised figures and tables while new feature boxes Textbook Cases serve to better illuminate key concepts. Pommerville's acclaimed learning design format enlightens and engages students right from the start and new chapter conclusions round out each chapter leaving readers with a clear understanding of key concepts.

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Pommerville,2007-01-01 **Microbiology Essentials** Lauren Gross,Tammy McCormick,2013-01-01 REA's Essentials provide quick and easy access to critical information in a variety of different fields ranging from the most basic to the most advanced As its name implies these concise comprehensive study guides summarize the essentials of the field covered Essentials are helpful when preparing for exams doing homework and will remain a lasting reference source for students teachers and professionals Microbiology includes the history of microbiology equipment and techniques diversity of

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