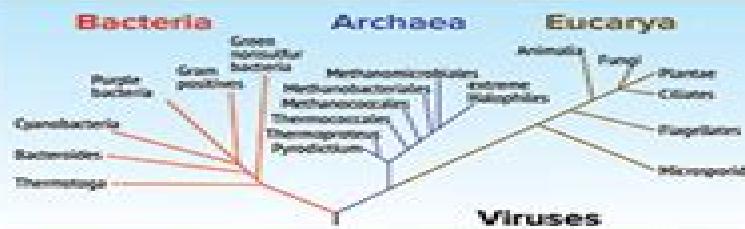


MICROBIOLOGY

Discover the science of microorganisms

Organisms & Evolution 8

- Microbiology: The study of living things too small to see with the naked eye.
- The three main divisions of life are **Bacteria**, **Archaea**, **eukaryotes**, and **viruses**.



Characteristic	Prokaryotes	Archaea	Eukaryotes	Viruses
Size	0.2—5 micrometers	0.2—5 micrometers	5—100 micrometers	0.002—0.1 micrometers
Nucleolus	None	None	None	None
Genetic material and chromosomes	DNA	DNA	DNA	DNA and RNA
Logistic behavior	None	Quiescent	None	None
Reproduction	Binary fission	Binary fission	Binary fission	None
Metabolism—general organization	None	None	None	None
RNA—polymerase	None	None	None	None
Chromatin—nucleic acid fibers	None	None	None	None
Membrane—cell walls	None	None	None	None
Cell wall	Peptidoglycan	Protein—peptidoglycan	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

Architectural

- 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; methanophiles, sulfur loving; thermophiles, heat loving; lithotrophs, 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.

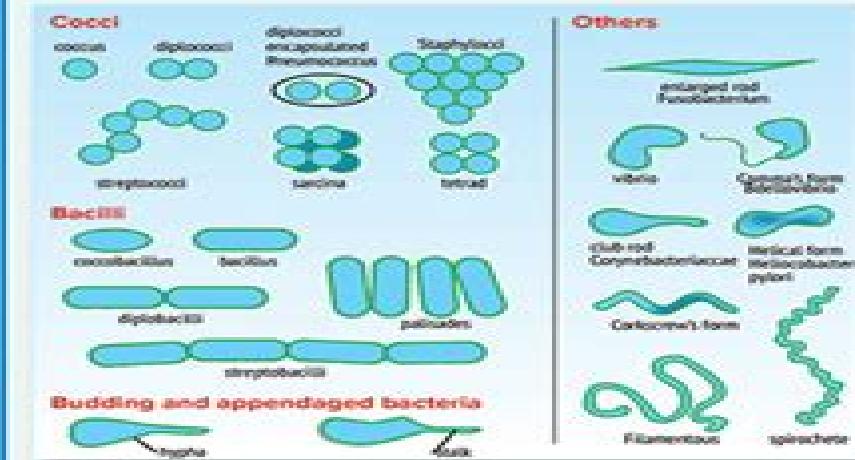
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- Many **host viruses** are not alive as they are obligate parasites and cannot replicate without other cells.
- Different viruses target all three domains
- Viruses may use DNA or RNA as genetic material and use molecules from the host cell to make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

Shapes & Types 16

Bacterial & Archaeal Cell Shapes & Growth Characteristics

- Concrete Spherical
- Basaltic: Moon-shaped
- Spherulitic: Spindle-shaped
- Phenocrystic: Relatively clean and rounded



- 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:** Short, rod-shaped organelles used for photosynthesis and for food storage.
- **Flagella:** Long, whip-like organelles used for locomotion. Usually, there are only one or two per cell.
- **Septum:** Single cells living in a damp environment (e.g., under leaves in a forest) that come together sharing a replication.



- **Amoeba**: Free-living cell that can change its shape and engulf its prey
- **Fungi**: Non-plant, non-animal organisms (e.g., mushrooms and fungiellines)
- **Algaes**: Photosynthetic organisms with a nucleus and chloroplasts. Many are single cells, others are multicellular, but many forms are still microscopic (i.e., *volvox*)
- **Eukaryotes**: Photosynthetic eukaryote with a eukaryotic cell wall often with a complex symmetrical pattern
- **Viruses**: Eukaryotes, single-celled, round things
- **Slime Molds**: Multicellular Fungus which forms hair-like projections (rhizopores) that may contain extracellular (symbiotic) or not (heterotrophic)

Virtual Shapers

- **Effektivität:** Speziell anpassungsfähig und produktiv zugleich. Gute Voraussetzung für die Anwendung.

Microbiology 101 Study Guide

Michael T. Murphy

Microbiology 101 Study Guide:

Microbiology 101 Study Guide: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels entralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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