

MICROBIOLOGY

Discover the science of microorganisms

Organisms & Evolution 2

- 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	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, 3 nucleotides	None—complex, 10 nucleotides	None—complex, 12 nucleotides	Depends on proteinaceous
Chromatin—histone bridge	None	None	None	None
Membrane—membrane cell walls	None	None	None	None—cellulose
Cell wall	Peptidoglycan	Protein—polysaccharide fibers	Protein—polysaccharide fibers	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.

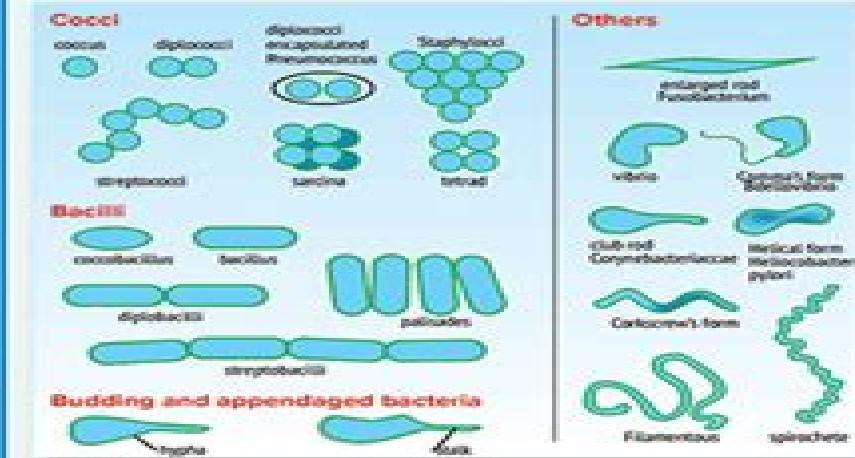
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- Many viral viruses are not alive as they are obligate parasites and cannot replicate without other cells.
- Different viruses target all three domains
- Viruses may use DNA or RNA as genetic material and use molecules from the host cell to make more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

Shapes & Types 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:** 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.



- **Amoeba**: Free-living cell that can change its shape and engulf its prey
- **Prokary**: Non-nucleate, non-fungi organisms (e.g., bacteria and archaea)
- **Alga**: 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 hair-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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RJ Alexander

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Copyright Office,1962 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December **Active Learning in College Science** Joel J. Mintzes,Emily M. Walter,2020-02-23 This book explores evidence based practice in college science teaching It is grounded in disciplinary education research by practicing scientists who have chosen to take Wieman s 2014 challenge seriously and to investigate claims about the efficacy of alternative strategies in college science teaching In editing this book we have chosen to showcase outstanding cases of exemplary practice supported by solid evidence and to include practitioners who offer models of teaching and learning that meet the high standards of the scientific disciplines Our intention is to let these distinguished scientists speak for themselves and to offer authentic guidance to those who seek models of excellence Our primary audience consists of the thousands of dedicated faculty and graduate students who teach undergraduate science at community and technical colleges 4 year liberal arts institutions comprehensive regional campuses and flagship research universities In keeping with Wieman s challenge our primary focus has been on identifying classroom practices that encourage and support meaningful learning and conceptual understanding in the natural sciences The content is structured as follows after an Introduction based on Constructivist Learning Theory Section I the practices we explore are Eliciting Ideas and Encouraging Reflection Section II Using Clickers to Engage Students Section III Supporting Peer Interaction through Small Group Activities Section IV Restructuring Curriculum and Instruction Section V Rethinking the Physical Environment Section VI Enhancing Understanding with Technology Section VII and Assessing Understanding Section VIII The book s final section IX is devoted to Professional Issues facing college and university faculty who choose to adopt active learning in their courses The common feature underlying all of the strategies described in this book is their emphasis on actively engaging students who seek to make sense of natural objects and events Many of the strategies we highlight emerge from a constructivist view of learning that has gained widespread acceptance in recent years In this view learners make sense of the world by forging connections between new ideas and those that are part

of their existing knowledge base For most students that knowledge base is riddled with a host of naive notions misconceptions and alternative conceptions they have acquired throughout their lives To a considerable extent the job of the teacher is to coax out these ideas to help students understand how their ideas differ from the scientifically accepted view to assist as students restructure and reconcile their newly acquired knowledge and to provide opportunities for students to evaluate what they have learned and apply it in novel circumstances Clearly this prescription demands far more than most college and university scientists have been prepared for

Clinical Medicine; Examination Review

George Horemis,1972

Medical-surgical Nursing Examination Review

George Horemis,Clemencia Matamors,1973

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Microbiology Gerard J. Tortora,Berdell R. Funke,Christine L. Case,1989

The National Guide to Educational Credit

for Training Programs American Council on Education,2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies

First Aid for the USMLE Step 1 Vikas Bhushan,Chirag Amin,1998

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News American Society for Microbiology,1998

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