

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's DNA is more similar to its own than to any of the other three



Characteristic	Bacteria	Archaea	Eukaryotes	Viruses
Size	0.2–5 microns	0.2–5 microns	1–90 microns	0.02–0.3 microns
Nucleus	No	No	Yes	No
Genetic information	DNA	DNA	DNA	DNA or RNA
Lipid bilayer	Yes	Modified	Yes	Sometimes
Ribosomes	Small, unique	Small, more like eukaryotes	Large	No
Membrane-bound organelles	No	No	Yes	No
RNA polymerase	Single, 3 subunits	More complex, 8 subunits	Most complex, 12 subunits	Depends on genetic material
Grow without outside help	Yes	Yes	Yes	No
Maximum number of cells	1	1	Many	Non-cellular
Cell wall	Peptidoglycan	Several different forms	Cellulose, sometimes none	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/in them than human cells
- Incredibly diverse
 - There are thousands of different species in one gram of soil
- Live in most environments, including the deep sea, underground, and terrestrial

Archaea

- 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
 - ENO: Halophiles, salt loving; sulfophiles, sulfur loving; thermotrophs, heat loving; lithotrophs, rock loving; methanophiles, methane loving (ruminant guts)

Eukaryotes

- May be single cells (e.g., yeast, algae, and amoebas) 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

Viruses

- Many feel 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 //

Bacterial & Archeal Cell Shapes & Growth Characteristics

- Cocci: Spherical
- Bacilli: Rod-shaped
- Spirilla: Spiral-shaped
- Pleomorphic: Multiple shapes are possible



- Diplo- Prefix meaning two; a diplococcus is two cocci that have grown together
- Tetrad: Four cocci that grow together in a plane
- Sarcinae: Eight cocci that grow together in a cube
- Strepto- Prefix meaning chain; a streptococcus is cocci that have grown together in a chain
- Staphylo- Prefix meaning cluster; a staphylococcus is cocci that have grown together in a cluster

Eukaryotic Types

- Ciliates: Short cilia used for locomotion and/or feeding
- Flagellates: Long flagella used for locomotion; usually there are only one or two per cell
- Slime molds: Single cells living in a damp environment (e.g., under leaves in a forest) that come together during replication



- Amoeba: Free-form cell that can change its shape and engulf its prey
- Protoist: Non-plant, non-fungi organism (e.g., ciliates and flagellates)
- Algae: Photosynthetic organism with a nuclei and chloroplasts. Many are single cells, others are multicellular, but many forms are still microscopic (i.e., volvox)
- Diatoms: Photosynthetic eukaryote with a silicate cell wall often with a complex symmetrical pattern
- Yeast: Eukaryotic, single-celled, round fungi
- Mush: Multicellular fungus which forms hair-like projections (hyphae) that may contain crosswalls (septate) or not (non-septate)

Viral Shapes

- Helical: Spiral arrangement of protein capsid molecules that can appear rod-shaped

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Microbiological Spoilage of Foods and Beverages William H. Sperber, Michael P. Doyle, 2009-09-23 The increased emphasis on food safety during the past two decades has decreased the emphasis on the loss of food through spoilage particularly in developed countries where food is more abundant In these countries spoilage is a commercial issue that affects the profit or loss of producers and manufacturers In lesser developed countries spoilage continues to be a major concern The

amount of food lost to spoilage is not known As will be evident in this text stability and the type of spoilage are influenced by the inherent properties of the food and many other factors During the Second World War a major effort was given to developing the technologies needed to ship foods to different regions of the world without spoilage The food was essential to the military and to populations in countries that could not provide for themselves Since then progress has been made in improved product formulations processing packaging and distribution systems New products have continued to evolve but for many new perishable foods product stability continues to be a limiting factor Many new products have failed to reach the marketplace because of spoilage issues

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T. Randall Lankford, 1976 Medical Books and Serials in Print , 1984 **Subject Guide to Books in Print** , 1993 **The Journal of Nursing Education** , 1978 Oral and Maxillofacial Surgery Lars Andersson, Karl-Erik Kahnberg, M. Anthony Pogrel, 2012-01-10

Oral and Maxillofacial Surgery Edited by Lars Andersson Karl Erik Kahnberg and M Anthony Pogrel Oral and Maxillofacial Surgery is a comprehensive reference for all trainees and specialists in oral and maxillofacial surgery oral surgery and surgical dentistry This landmark new resource draws together current research practice and developments in the field as expressed by world authorities The book's aim is to cover the full scope of oral and maxillofacial surgery incorporating recent technical and biological developments within the specialty It provides a uniquely international and contemporary approach reflecting the exciting developments of technique and instrumentation within this surgical field built on technical innovation and medical and dental research Oral and Maxillofacial Surgery coalesces impressively broad and deep coverage of this surgical specialty into a cohesive and readable resource identifying commonalities and shedding light on controversies through reasoned discussion and balanced presentation of the evidence The Editors are joined by over 50 international experts offering a truly global perspective on the full spectrum of issues in oral and maxillofacial surgery The book's coverage extends from basic principles such as patient evaluation dental anesthesia wound healing infection control and surgical instruments to coverage of the complex areas of dentoalveolar surgery oral pathologic lesions trauma implant surgery dentofacial deformities temporomandibular joint disorders and salivary gland disorders Where relevant the book provides separate coverage of topics where practice differs significantly from region to region such as general anesthesia Comprehensive reference covering full scope of oral and maxillofacial surgery Covers state of art clinical practice and the basic principles that underpin it Promotes an intellectually and internationally inclusive approach to oral and maxillofacial surgery Nearly 100 expert contributors brought together under the aegis of a renowned international editorial team Richly illustrated with medical artwork and clinical images ALSO OF INTEREST Clinical Periodontology and Implant Dentistry Fifth Edition Edited by Jan Lindhe Niklaus P Lang Thorkild Karring ISBN 9781405160995 Textbook and Color Atlas of Traumatic Injuries to the Teeth Fourth Edition Edited by Jens Andreasen Frances Andreasen Lars Andersson ISBN 9781405129541 Microbiology of Human Skin William Charles Noble, Dorothy A.

Somerville,1981 **Food Safety and Quality-Based Shelf Life of Perishable Foods** Peter J. Taormina,Margaret D. Hardin,2021-01-04 This book addresses the shelf life of foods a key factor in determining how food is distributed and consequently where and when different food products are available for consumption Shelf life is determined by several factors including microbiological chemical physical and organoleptic deterioration Often these factors are interrelated and interdependent The editors of this volume focus specifically on the microbial factors related to shelf life of perishable foods and food commodities This allows for more detailed coverage of foodborne bacterial pathogens and spoilage microorganisms of concern The initial part of the book covers the why and how of shelf life determination as well as the specific microbial pathogens and spoilage microorganisms of concern for perishable foods Contributors address topics such as the techniques utilized for determination of shelf life the frequency of shelf life testing for different products the interpretation of data to make shelf life determinations and management of shelf life of food products from the perspective of the food producer distributor retailer and regulator Three key areas impacting shelf life are addressed in detail sanitation processing and packaging The sanitation chapter explains the necessary components of cleaning and sanitizing to assure a hygienic processing environment and why that is critical to shelf life control Traditional processing procedures are reviewed and advanced processing technologies are explored Materials used in food packaging and the utilization of traditional and activated food packaging by product type are covered in detail The latter two chapters of the book delve into newer techniques of analysis and explore the microbiome of food products Implications of microbial ecology and microbial quantification in food products are discussed in chapters on genomics and in the changing dogma of meat shelf life The primary audience for this work includes food industry quality and food safety technicians managers directors and executives responsible for shelf life Academicians and governmental researchers involved in research and teaching about food safety and quality will also find the material relevant and useful **Self-assessment of Current Knowledge in Infectious Diseases** Richard V. McCloskey,1972 **Surgical Oncology Case Studies** H. Mason Morfit,Erick R. Ratzer,1978 Self-assessment of Current Knowledge in Clinical Biochemistry Marge A. Brewster,1973 Renal, Genitourinary and Breast Pathology and Pathophysiology Case Studies Richert E. Goyette,1976 *The Standard Periodical Directory* ,2003 Neuropathology Case Studies Sydney S. Schochet,William F. McCormick,1976 **Digestive System Basic Sciences** Myron E. Tracht,1973 **Biochemistry Review** David M. Glick,1975 Previous editions by E H Mosbach **Diabetes Mellitus Case Studies** Buris R. Boshell,1976

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