

Microbiology Prescott

Oral microbiology ISBN 978-3-319-31248-4. Resident microbes of the mouth adhere to the teeth and gums to resist mechanical flushing from the mouth to stomach where acid-sensitive microbes are destroyed by hydrochloric acid. Prescott's Microbiology (9th ed. 713–721. Sherwood L, Willey J, Woolverton C (2013). pp. ISBN 9780073402406 Oral microbiology is the study of the microorganisms (microbiota) of the oral cavity and their interactions between oral microorganisms or with the host. It provides a source of water and nutrients, as well as a moderate temperature. The environment present in the human mouth is suited to the growth of characteristic microorganisms found there. New York: McGraw Hill.) 1a3fe2fd97

Microaerophile Wm. 130–131 A microaerophile is a microorganism that requires environments containing lower levels of dioxygen than that are present in the atmosphere (i. Prescott LM, Harley JP, Klein DA (1996). C. < 21% O₂; typically 2–10% O₂) for optimal growth. Many microaerophiles are also capnophiles, requiring an elevated concentration of carbon dioxide (e. 91–107.). pp. g. Microbiology (3rd ed. Brown Publishers. pp.). e. 10% CO₂ in the case of Campylobacter species). (1st ed. A more restrictive interpretation requires the microorganism to be obligate in this requirement. ISBN 0-471-49754-1. Wiley 1a3fe2fd97

Anaerobic bacteria in the oral cavity include: Actinomyces, Arachnia (Propionibacterium propionicus), Bacteroides, Bifidobacterium, Eubacterium, Fusobacterium, Lactobacillus, Leptotrichia, Peptococcus, Peptostreptococcus, Propionibacterium, Selenomonas, Treponema, and Veillonella... 1a3fe2fd97

Obligate aerobe pp.). Brown Publishers. Aerobic respiration has the advantage of yielding more energy (adenosine triphosphate or ATP) than fermentation or anaerobic respiration, but obligate aerobes are subject to high levels of oxidative stress. C. Microbiology (3rd ed. In this type of respiration, oxygen serves as the terminal electron acceptor for the electron transport chain. 130–131 An obligate aerobe is an organism that requires oxygen to grow. Wm. Through cellular respiration, these organisms use oxygen to metabolise substances, like sugars or fats, to obtain energy. Obligate anaerobe Facultative anaerobe Microaerophile Prescott LM, Harley JP, Klein DA (1996) 1a3fe2fd97

Fred W. Tanner Prescott, S. Tanner. "Food Research Fred Wilbur Tanner (1888–1957) was an American food scientist and microbiologist who involved in the founding of the Institute of Food Technologists (IFT) and the creation of the scientific journal Food Research (now the Journal of Food Science (JFS)). "Microbiology in Relation to Food Preservation. C. (1938). W. and F. the Pasteur Award and honorary medallion in 1959.) 1a3fe2fd97

Thermal death time , J. Klien. It was originally developed for food canning and has found applications in cosmetics, producing salmonella-free feeds for animals (e. (1993). Harley, & D. Microbiology, 2nd Edition. of Food Technologists: Chicago. Brown Thermal death time is how long it takes to kill a specific bacterium at a specific temperature. poultry) and pharmaceuticals. g. A. pp. Dubuque, IA: William C. P. 17–18. Prescott, L. M 1a3fe2fd97

American Society for Microbiology The American Society for Microbiology (ASM), originally the Society of American Bacteriologists, is a professional organization for scientists who study The American Society for Microbiology (ASM), originally the Society of American Bacteriologists, is a professional organization for scientists who study viruses, bacteria, fungi, algae, and protozoa as well as other aspects of microbiology. The Society publishes a variety of scientific journals, textbooks, and other educational materials related to microbiology and infectious diseases. It was founded in 1899. ASM organizes annual meetings, as well as workshops and professional development opportunities for its members 1a3fe2fd97

A medical microbiologist studies the characteristics of pathogens, their modes of transmission, mechanisms of infection and growth. The academic qualification as a clinical/Medical Microbiologist in a hospital or medical research centre generally requires a Bachelors degree while in some countries a Masters in Microbiology along with... 1a3fe2fd97

Samuel Cate Prescott development of food safety, food science, public health, and industrial microbiology. Prescott was born in South Hampton, New Hampshire, the younger of two children Samuel Cate Prescott (April 5, 1872 – March 19, 1962) was an American food scientist and microbiologist who was involved in the development of food safety, food science, public health, and industrial microbiology 1a3fe2fd97

Encystment, the process of cyst formation, can function as a method for dispersal and as a way for an organism to survive in unfavorable environmental conditions. These two functions can be combined when a microbe needs to be able to survive harsh conditions between habitable environments (such as between hosts) in order to disperse. Cysts can also be sites for nuclear reorganization and cell division, and in parasitic species they are often... 1a3fe2fd97

Microbial cyst Many groups of single-celled, microscopic organisms, or microbes, possess the ability to enter this dormant state. "Prescott's Microbiology (Eleventh ed A microbial cyst is a resting or dormant stage of a microorganism, that can be thought of as a state of suspended animation in which the metabolic processes of the cell are slowed and the cell ceases all activities like feeding and locomotion. Willey J, Sandman KM, Wood DH (2019). "Encystment and Excystment. Retrieved 2023-11-17. Society for Microbiology 1a3fe2fd97

The original definition of a microaerophile has been criticized for being too restrictive and not accurate enough compared to similar categories. The broader term microaerobe has been coined to describe microbes able to respire oxygen "within microoxic environments by using high-affinity terminal oxidase". 1a3fe2fd97

Rhodococcus equi equi is an important pathogen causing pneumonia in foals. Since 2008, R. Microbiology. 148 (Pt 3): 793–798. 1099/00221287-148-3-793. This organism is a facultative intracellular mycobacterial pathogen. *Rhodococcus equi* infection in these populations resemble the clinical and pathological signs of advanced pulmonary tuberculosis. *equi* can infect immunocompromised people, such as HIV-AIDS patients or organ transplant recipients. von Bargen, K; Polidori, M; Becken, U; Huth, G; Prescott, JF; Haas *Rhodococcus equi* is a Gram-positive coccobacillus bacterium. The organism is commonly found in dry and dusty soil and can be important for diseases of domesticated animals (horses and goats). doi:10. *equi* has been known to infect wild boar and domestic pigs. *equi* The frequency of infection can reach near 60%. R. R. PMID 11882714 1a3fe2fd97

Medical microbiology In addition, this field of science studies various clinical applications of microbes for the improvement of health. There are four kinds of microorganisms that cause infectious disease: bacteria, fungi, parasites and viruses, and one type of infectious protein called prion. Medical microbiology, the large subset of microbiology that is applied to medicine, is a branch of medical science concerned with the prevention, diagnosis Medical microbiology, the large subset of microbiology that is applied to medicine, is a branch of medical science concerned with the prevention, diagnosis and treatment of infectious diseases 1a3fe2fd97

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