

[Case Reports in Microbiology and Bacteriology Journal](#) publishes images in clinical microbiology, case reports in Bacteriology, case reports in clinical Microbiology etc. Microbiology is concerned with the study of the physical, chemical and biological characteristics related to various unicellular, multicellular and acellular microscopic organisms. Bacteriology is the subdivision of microbiology which involves the studies related to the identification, classification and characterization of bacterial species.

Microbiology is a branch of medicine concerned with the aversion, diagnosis and treatment of infectious diseases. In integration, this field of science studies sundry clinical applications of microbes for the amelioration of health. There are four kinds of microorganisms that cause infectious disease: bacteria, fungi, parasites and viruses and one type of infectious protein called a prion. Medical microbiologists often make treatment recommendations to the patient's medico predicated on the strain of microbe and its antibiotic resistances, the site of infection, the potential toxicity of antimicrobial drugs and any drug allergies the patient has.

Microbiology is not only about diagnosing and treating disease; it additionally involves the study of benign microbes. Microbes have been shown to be subsidiary in combating infectious disease and promoting health. Treatments can be developed from microbes, as demonstrated by Alexander Fleming's revelation of penicillin as well as the development of incipient antibiotics from the bacterial genus *Streptomyces* among many others. Not only are microorganisms a source of antibiotics but some may withal act as probiotics to provide health benefits to the host, such as providing better gastrointestinal health or inhibiting pathogens.

Bacteria are single-celled microorganisms and the part of microbiological science which encompasses the study of bacteria is known as "Bacteriology". Major researches in bacteriology over the past years resulted in the development of many useful vaccines.

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