# A Short Note on Microbiology

### Cirino Linville\*

Department of Microbiology, Obafemi Awolowo University, Ile-Ife, Nigeria

## Commentary

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#### \*For Correspondence:

Cirino Linville, Department of Microbiology, Obafemi Awolowo University, Ile-Ife, Nigeria

#### E-mail: linville@gmail.com

## DESCRIPTION

Microbiology is the scientific study of unicellular (single cell), multicellular (cell colony), and acellular microorganisms (lacking cells). Virology, bacteriology, protistology, mushroom cultivation, immunology, and parasitology are all sub-disciplines of microbiology.

Fungi and protists are eukaryotic microorganisms that have membranebound organelles, whereas Bacteria and *Archaea* are prokaryotic microorganisms that don't have membrane-bound organelles. Microbiologists depended on culture, staining, and microscopy. However, only about 1 of microbes found in everyday surroundings can be cultivated in insulation using being styles. Microbiologists constantly calculate on molecular biology tools similar as DNA sequence- grounded identification, similar as the 16S rRNA gene sequence, which is used to identify bacteria.

Infectious have been classified as organisms in a different of ways, with some classifying them as incredibly basal microorganisms and others classifying them as extremely complex molecules. Prions, which aren't considered origins, have been studied by virologists since the clinical consequences linked to them due to habitual viral infections, and virologists were assigned with finding "Contagious proteins."

Microorganisms were predicted hundreds of times before they were discovered, for illustration, by the Jains in India and Marcus Terentius Varro in ancient Rome. The first reported microscope observation was of mould regenerating bodies by Robert Hooke in 1666, but the Jesuit clerk Athanasius Kircher, who mentioned seeing origins in milk and rotten material in 1658, was probably the first to view them. In the 1670s, Antonie van Leeuwenhoek, a father of microbiology, examined and experimented with bitsy organisms using primitive microscopes he designed. Louis Pasteur's work in scientific microbiology and Robert Koch's work in medical microbiology helped to shape the field in the nineteenth century.

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Microbiology, mushroom civilization, protozoology, virology, biology, and microbial ecology are examples of microbiology branches that can be codified as applied lores or resolve according to taxonomy. Specific fields of microbiology have a lot of imbrication with each other and with other lores, and some characteristics of these branches can go beyond the usual compass of microbiology. Cellular microbiology is a pure scientific discipline of microbiology.

While some people are scared of microbes because they've been linked to a variety of mortal conditions, numerous microbes are also involved in salutary processes like artificial turmoil (e.g., the product of alcohol, ginger, and dairy products), antibiotic product, and acting as molecular vehicles to transfer DNA to complex organisms like shops and creatures. Microbe knowledge has also been used to develop biotechnologically essential enzymes like Taq DNA polymerase, journalist genes for use in other inheritable systems, and new molecular biology ways like the incentive two-hybrid system.

Bacteria can be used to produce amino acids in artificial amounts. *Corynebacterium* is a major bacterial species that produces over two million tonnes of amino acids per time, primarily L-glutamate and L-lysine. Because some bacteria can conflation antibiotics, they're employed in drug, similar as *Streptomyces*, which produces aminoglycoside antibiotics.

Microorganisms produce a wide range of biopolymers, including polysaccharides, polyesters, and polyamides. Biopolymers with customised characteristics applicable for high-value medicinal operations similar as drug delivery are biotechnologically produced using microorganisms. Microorganisms are used to make xanthan, alginate, cellulose, cyanophycin, poly (gamma-glutamic acid), levan, hyaluronic acid, organic acids, oligosaccharides, polysaccharides, and polyhydroxy alkanoates, among other effects.

Microbial biodegradation or bioremediation of domestic, agricultural, and artificial wastes, as well as subsurface pollution in soils, sediments, and marine territories, is eased by microorganisms. Each microorganism's capability to breakdown poisonous waste is determined by the nature of the impurity. The most successful system to microbial biodegradation is to use a variety of bacterial and fungal species and strains, each applicable to the biodegradation of one or further types of adulterants, because spots generally have numerous pollutant types.