Introduction to Microbiology, History & scope

· Microbiology:

- In the broadest sense, microbiology is the study of all organisms that are invisible to the naked eye-that is the study of microorganisms.
- Its subjects are viruses, bacteria, many algae and fungi, and protozoa.
- The importance of microbiology and microorganisms can not be overemphasized.
- Microorganisms are necessary for the production of bread, cheese, beer, antibiotics, vaccines, vitamins, enzymes, etc.
- Modern biotechnology rests upon a microbiological foundation.

Microorganisms:

- Microorganisms are everywhere; almost every natural surface is colonized by microbes, from body to ocean. Some microorganisms can live hot springs, and others in frozen sea ice.
- Most microorganisms are harmless to humans; You swallow millions of microbes every day with no ill effects. In fact, we are dependent on microbes to help us digest our food.
- Microbes also keep the biosphere running by carrying out essential functions such as decomposition of dead animals and plants. They make possible the cycles of carbon, oxygen, nitrogen and sulfur that take place in terrestrial and aquatic systems.
- Microorganisms have also harmed humans and disrupted society over the millennia.

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Jake Burns

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biotechnology medical and pharmaceutical science The book aims to present a comprehensive account of various concepts of microbiology and its applications in different industrial processes and other fields It focuses on microbiological principles and techniques to provide a better understanding of the field This book is beneficial for students researchers and professionals engaged in the field of microbiology Microbiology: Basic & Applied Aspects Bharat Singh, 2009-01-01 Microbiology began since ancient times when people learned to grind lenses from pieces of glass and combine them to produce magnifications great enough to enable microbes to be seen Since then microorganisms are exceptionally attractive models for studying fundamental life processes Microorganisms can be grown conveniently in test tubes or flasks thus requiring less space and maintenance than larger plants and animals Microbes grow rapidly and reproduce at an unusually high rate some species of microbes undergo almost 100 generations in 24 hours period The metabolic processes of microbes follow patterns that occur among higher plants and animals The contents are as under Historical Foundations and Scope of Microbiology General Characteristics and Taxonomy of Microorganisms Methods in Microbiology Prokaryotic Cells The Bacteria and Mycoplasma Eukaryotic Cells The Microorganisms Microbial Genetics Microbial Physiology and Metabolism Genetics of Bacteriophage Miscellaneous Bacterial Diseases Physical and Chemical Control Measures of Microorganisms Microorganisms and Human Interactions Tools and Techniques of Genetic Engineering Soil and Aquatic Microbiology Food and Industrial Microbiology Nitrogen Fixation by Microorganisms DNA and RNA Virus Diseases Antimicrobial Drugs Their Mechanism of Action Fermentation and Symbiotic Interactions in Organisms Immunotherapy and Immune Assays Fungal Diseases References Index The contents of this book will be helpful to the undergraduate and post graduate students of Microbiology Biochemistry Agriculture science and Food science Textbook of Microbiology Dr. A.K Kushwaha, 2020-07-26 Microbiology is the study of microscopic organisms such as bacteria viruses archaea fungi and protozoa This discipline includes fundamental research on the biochemistry physiology cell biology ecology evolution and clinical aspects of microorganisms including the host response to these agents CONTENTS MICROBIOLOGY AND THEIR HISTORY 1 MICROSCOPY 9 Staining Techniques Introduction to Microscopes Types of Microscopes Limitations DISTRIBUTION OF MICROORGANISMS 20 Microorganisms in soil Microorganisms in water Microbes of the air Associated with man In association with insects CLASSIFICATION AND DENTIFICATION METHODS OF MICROORGANISMS 26 Classification of Prokaryotes Evolution of Prokaryotes Categories of microorganisms in ecology THE METHODS IN MICROBIOLOGY 36 PROKARYOTIC CELLS AND EUKARYOTIC CELLS 40 NUCLEIC ACIDS 46 THE BACTERIA 76 General Characteristics Bacteria Morphology Reproduction in Bacteria BACTERIAL GENETICS 96 Genetic organization Mutations Plasmids Types of Transposable Genetic Elements NUTRITION AND GROWTH OF BACTERIA 106 Nutritional Requirements of Cells Growth Factors The Effect of Oxygen The Effect of pH on Growth The Effect of Temperature on Growth Water Availability Methods in bacteriology Culture Medium Sterilisation vs disinfection Staining of bacteria CULTIVATION OF BACTERIA IN CULTURE

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Microbiology Nicholas P. Money,2014-12-04 In recent decades we have come to realize that the microbial world is hugely diverse and can be found in the most extreme environments Fungi single celled protists bacteria archaea and the vast

array of viruses and sub viral particles far outnumber plants and animals Microbes we now know play a critical role in ecosystems in the chemistry of atmosphere and oceans and within our bodies The field of microbiology armed with new techniques from molecular biology is now one of the most vibrant in the life sciences In this Very Short Introduction Nicholas P Money explores not only the traditional methods of microscopy and laboratory culture but also the modern techniques of genetic detection and DNA sequencing genomic analysis and genetic manipulation In turn he demonstrates how advances in microbiology have had a tremendous impact on the areas of medicine agriculture and biotechnology ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable An Integrated Approach Jake Burns, 2021-11-16 Microbiology is the study of microbial life This discipline encompasses the study of acellular unicellular and multicellular organisms such as viruses bacteria archaea fungi algae etc The study of microbiology is significant due to the extensive use of microorganisms in industrial fermentation processes bioremediation of wastes and for the production of a variety of biopolymers such as polyesters polysaccharides and polyamides There is immense scope of microbial use in medical science notable among which are antibiotic production production of beneficial vitamins and amino acids suppression of pathogenic microbes and development of biopolymers with applications in tissue engineering and drug delivery Research that explores microbes as therapeutic agents against cancer is also being pursued This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of microbiology The various advancements in this area of study are glanced at and their applications as well as ramifications are looked at in detail With state of the art inputs by acclaimed experts of this field this book targets students and professionals

Textbook of Microbiology Naveen Kango,2013-12-30 Textbook of Microbiology provides a structured approach to learning by covering all the important topics in a simple uniform and systematic format The book is written in a manner suited to the undergraduate and postgraduate of Microbiology Industrial Microbiology courses The language and diagrams are particularly easy to understand and reproduce while answering essay type questions Sections I of the book covers essentials of Microbiology including history scope and milestones in the development of microbiology This is followed by detailed accounts of characteristics and classification of microorganisms including bacteria virus fungi and actinomycetes Individual chapters on microscopy isolation and maintenance of microorganisms microbial growth provide a detailed account of these techniques and their use in microbiology Section II of the book covers biochemistry microbial genetics and some instrumentation including chapters on carbohydrates proteins lipids nucleic acids gene regulation translation and transcription along with detailed accounts of spectrophotometry pH meter and fermenters It broadly covers Fundamentals of Microbiology Tools and Techniques used in Microbiology Basic Biochemistry Microbial genetics

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