



Textbook of  
**Microbiology**  
for Health Sciences

Dr. Loveleen Kaur Sarao



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# Textbook Of Microbiology

**D.K.Maheshwari**



## **Textbook Of Microbiology:**

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Ananthanarayan and Paniker's Textbook of Microbiology R. Ananthanarayan,2006      *A Textbook Of Microbiology* P. Chakraborty,2005      **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 IDENTIFICATION 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 MEDIA 128 ACTINOMYCETES 145 Classification Importance of actinomycetes Actinomycosis PSEUDOMONAS AND VIBRIO XANTHOMONAS 152 Classification history Diseases Treatment ENTEROBACTERIACEAE 165 Salmonella Escherichia Shigella Klebsiella RICKETTSIA 176 Cell Structure and Metabolism Genome Structure Pathology Treatment ARCHAEBACTERIA 181 Origin and evolution Types of Archaeobacteria Lokiarchaeota Methanobrevibacter smithii MYCOPLASMAS 190 Structure of Mycoplasmas Reproduction in Mycoplasma Transmission of Mycoplasma Diseases Caused by Mycoplasma THE CHLAMYDIA 197 Chlamydial Infection Treatment VIRUSES 204 Virus history Viral Morphology Replication of viruses BACTERIOPHAGES 214 21 TOBACCO MOSAIC VIRUS TMV 220 22 POTATO VIRUS 226 Potato virus Y Potato virus X PVX Wild potato mosaic virus WPMV 23 MYCOVIRUSES 232 Kuru virus Measles rubeola virus Oncogenic or cancercausing viruses Viroids 24 CYANOPHAGES 238 25 TYPES OF VIRAL INFECTIONS 241 Respiratory Viral Infections Viral Skin Infections Foodborne Viral Infections Sexually Transmitted Viral Infections Other Viral Infections Antiviral Medication and Other Treatment Viruses and Cancer Viral Illness Prevention 26 REOVIRUSES 247 Rotavirus African horse sickness Bluetongue virus Colorado tick fever 27 RETROVIRUS 250

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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      **Textbook of Microbiology** Vasant Baradkar,2020-02-28 This sixth edition has been thoroughly revised and updated A number of new topics and subtopics have been added and the text presented in a simple and lucid manner Each chapter gives at the end key facts essay type and short answer type questions and multiple choice questions It is easy to understand and user friendly textbook which will be highly useful to MBBS BDS MSc and MD microbiology students Zika virus has been described in chapter of arboviruses It is illustrated with coloured and computer drawn figures clinical photographs and photomicrographs These make the book colourful and readers can have better understanding of the biology of microorganisms Each chapter ends with key facts and essay type short answer type and multiple choice questions The former summarizes the whole chapter and the latter help the student to know the type of questions asked in the examination Overview of microbiology in the last chapter summarizes the whole book The book is user friendly easy to understand and will be highly useful to MBBS BDS MSc and MD microbiology students      *Textbook of Microbiology* D. R. Arora,1999      *Burrows Textbook of Microbiology* William Burrows,Bob A. Freeman,1985

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