

CONTENTS

Chapter 1 THE HISTORICAL DEVELOPMENT OF MICROBIOLOGY	1
Chapter 2 LABORATORY METHODS	15
Chapter 3 THE PHYSICAL AND CHEMICAL STRUCTURE OF MICROORGANISMS	41
Chapter 4 THE GROWTH OF MICROORGANISMS	93
Chapter 5 BACTERIAL METABOLISM	121
Chapter 6 PHYSICAL AGENTS, BACTERICIDAL SUBSTANCES (DISINFECTANTS), AND CHEMOTHERAPEUTIC DRUGS	206
Chapter 7 MICROBIAL VARIATION AND GENETICS	252
Chapter 8 THE TAXONOMY OF MICROORGANISMS	290
Chapter 9 THE PATHOGENIC MICROORGANISMS AND DISEASE	297
Chapter 10 THE EPIDEMIOLOGY OF INFECTIOUS DISEASE	335
Chapter 11 THE MICROBIOLOGY OF WATER AND SEWAGE	352
Chapter 12 THE MICROBIOLOGY OF MILK AND FOOD	365
Chapter 13 IMMUNITY-Antigens, Antibodies, and the Antigen-Antibody Reaction	377
Chapter 14 IMMUNITY-The Serological Reactions	406
Chapter 15 THE IMMUNE STATE	432
Chapter 16 THE STAPHYLOCOCCI	461
Chapter 17 THE STREPTOCOCCI	479
Chapter 18 THE PNEUMOCOCCI	507
Chapter 19 THE GRAM-NEGATIVE PATHOGENIC COCCI (NEISSERIA): The Gonococcus And the Meningococcus	519
Chapter 20 THE ENTERIC BAKCILLI: The Coliform Bacteria, Friedlander's Bacillus (Pneumobacillus), and Proteus	538
Chapter 21 THE ENTERIC BACILLI-The Salmonella Group	555
Chapter 22 THE ENTERIC BACILLI: The Dysentery Bacilli	579
Chapter 23 THE CHOLERA VIBRIO AND RELATED FORMS	594
Chapter 24 BRUCELLA: Undulant Fever; Contagious Abortion of Cattle	611
Chapter 25 PASTEURELLA AND ACTINOBACILLUS: Hemorrhagic Septicemia; Plague; Tularemia; Glanders; Actinobacillosis	622
Chapter 26 THE HEMOPHILIC BACTERIA	646
Chapter 27 PSEUDOMONAS; LACTOBACILLUS; LISTERIA; ERYSIPELOTHRIX; BACTEROIDES; STREPTOBACILLUS; BARTONELLA; PLEUROPNEUMONIAGROUP; DONOVANIA	659
Chapter 28 BACILLUS-THE SPORE-FORMING AEROBES	688
Chapter 29 CLOSTRIDIUM-THE SPORE-FORMING ANAEROBES	699
Chapter 30 CORYNEBACTERIUM (THE DIPHTHERIA BACILLUS)	728
Chapter 31 MYCOBACTERIUM	747

Chapter 32 MEDICAL MYCOLOGY: The Pathogenic Actinomycetes, Molds, Yeasts and Related Microorganisms	775
Chapter 33 THE SPIROCHETES	833
Chapter 34 MEDICAL PARASITOLOGY	860
Chapter 35 RICKETTSIA	923
Chapter 36 THE PSITTACOSIS-LYMPHOGRANULOMA VENEREUM GROUP OF VIRUSES	947
Chapter 37 THE VIRUSES OF EXANTHEMATOUS DISEASE AND THE TUMOR VIRUSES	962
Chapter 38 THE INFLUENZA AND RELATED VIRUSES, INCLUDING MUMPS VIRUS (MYXOVIRUSES); THE ADENOVIRUSES; AND OTHER RESPIRATORY VIRUSES	997
Chapter 39 THE ENTERIC VIRUSES: Poliomyelitis Viruses, Coxsackie Viruses, ECHO Viruses; The Hepatitis Viruses	1022
Chapter 40 THE VIRUSES OF ARTHROPOD-BORNE DISEASE AND OTHER NEUROTROPIC VIRUSES	1049
INDEX	1095