Burnett & Scherp: ORAL MICROBIOLOGY AND INFECTIOUS DISEASE, 2nd edition

This book has been written for dentists, students of dentistry, and dental microbiologists. It will also be of interest to microbiologists, and physicians interested in the oral manifestations of various diseases.

During the last five years a tremendous amount of research has been done in the field of oral microbiology. Drs. Burnett and Scherp have included the most important results of this research in the present edition. For example they present: 1) studies in the systematic relationships of oral microorganisms; 2) a more detailed account of oral microbiota; 3) a resumé or recent ultrastructural investigations of enamel and caries; 4) experimental evidence that caries is an infectious, transmissible disease; and 5) investigations on the influence of diet on the formation of caries.

Microbial classification has been thoroughly revised to conform to the latest edition of Bergey's Manual of Determinative Bacteriology (1957). An outstanding feature of the second edition: almost 250 additional illustrations (photographs and microphotographs of disease states and disease entities) have been included.

CONTENTS—Section I: The Origins, Development and Scope of Microbiology  • The origins of microbiology  • The development of microbiology  • The germ theory of disease  • The development of oral microbiology  • The scope of microbiology—a perspective  • Section II: Systematic Microbiology  • The isolation and systematic examination of bacteria in pure culture  • Taxonomy  • Bacterial cytology  • The physiology of bacteria  • Bacterial metabolism  • Sterilization  • Chemotherapy  • The general principles of virology  • Section III: Infection and Resistance  • Infectious diseases as a by-product of parasitism  • The nature of virulence  • Innate or nonacquired bodily defenses  • Acquired body defenses—antibodies and antigens  • Serology  • Hypersensitivity  • Section IV: Oral Infections  • The microbial flora of the oral cavity  • The general nature of dental caries  • Historical theories of the etiology of dental caries  • The microbiology of dental caries  • Periodontal disease  • Infections of the tooth pulp and periapical tissues  • Systematic bacterial and protozoan diseases with oral manifestations  • Viral and rickettsial diseases with oral manifestations  • Mycotic diseases with oral manifestations  • Section V: Infectious Diseases  • Staphylococci and staphylococcal infections  • Streptococci and streptococcal infections  • Pneumococci and pneumococcal infections  • Pathogenic gram negative cocci  • Corynebacterium and the diphtheria bacillus  • Mycobacterium  • Pasteurella  • Brucella and brucellosis  • Haemophilus and bordetella  • Enterobacteriaceae  • Clostridium  • The vibrios  • Spirochetes  • Transitional groups of bacteria  • Viral and rickettsial diseases  • Protozoa and protozoal infections  • Mycotic infections  • Index.

By George W. Burnett, B.A., M.A., D.D.S., Ph.D., F.A.C.D., Colonel, Dental Corps, U.S. Army, Chief, Department of Oral Biology; Chairman, Department of Applied Sciences. U.S. Army Institute of Dental Research, Walter Reed Army Medical Center, Washington; and Henry W. Scherp, B.S., M.S., Ph.D., Chief, Laboratory of Microbiology, National Institute of Dental Research, Bethesda
1962 • 1010 pp., 500 figs. • $13.90

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By Roy Yorke Calne, M.S., F.R.C.S., Senior Lecturer, Surgical Unit, Westminster Hospital, London. With a Foreword by Joseph E. Murray, M.D., F.A.C.S., Assistant Clinical Professor of Surgery, Harvard Medical School; Senior Associate in Surgery, Peter Bent Brigham Hospital; Boston.

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Published for The University of Texas M. D. Anderson Hospital and Tumor Institute. Edited by Russell W. Cumley, Ph.D., University of Texas Medical Center, Houston.

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Edited by Maurice Landy and Werner Braun

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*Reference: Cohn et al., J.A.C.S, 68, 459, (1946).*

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*Reference: Cohn et al., J.A.C.S, 60, 1753, (1947).*