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Molecular Basis of Oral Microbial Adhesion

EDITORS: Stephan E. Mergenhagen and Burton Rosan

This new book discusses adhesion of bacteria to oral tissues and to other bacteria. With the recognition that oral microbial adhesion and colonization are crucial determinants in the pathogenesis of dental caries and periodontal diseases, the presentations in this book examine in detail the molecular interactions that are involved in the process of bacterial adherence to the tooth surface, to the oral mucosal surface, and to other bacteria in dental plaque. The papers in this book were first presented at a workshop held at the University of Pennsylvania in Philadelphia, June 1984. They are divided into six sections:

- Advances in Mechanisms of Microbial Adherence
- Adherence to Oral Soft Tissues
- Bacterial Adherence to Hard Tissues
- Salivary Components Influencing Bacterial Adherence
- Intergeneric Coaggregation between Oral Bacteria
- Genetic and Environmental Influences on Bacterial Adherence



The book is intended for microbiologists, infectious disease specialists, dental and medical students, graduate and postgraduate microbiology and dental students, and dental and periodontal researchers. It should be available in medical, dental, and university libraries.

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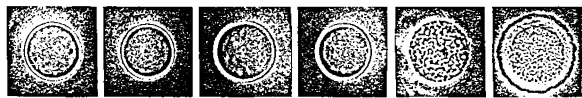
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IAI 7/85



Molecular Biology of Microbial Differentiation

Editors: James A. Hoch
Peter Setlow

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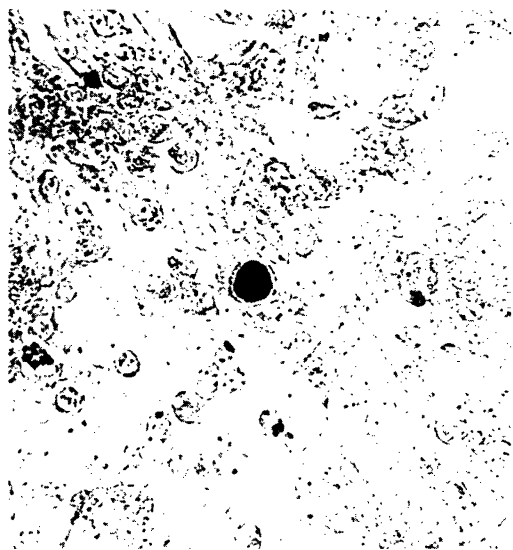
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CUMITECH 19



Laboratory Diagnosis of Chlamydial and Mycoplasmal Infections

by Wallace A. Clyde, Jr., George E. Kenny, and Julius Schachter. Coordinating Editor: W. Lawrence Drew

Chlamydia trachomatis is an extremely common human pathogen. It is responsible for trachoma in developing countries and for nongonococcal urethritis, epididymitis, cervicitis, acute salpingitis, proctitis, and conjunctivitis in industrialized societies. *C. trachomatis* strains are currently being implicated in a widening variety of clinical conditions.

Mycoplasma pneumoniae is one of the most common causes of respiratory disease, but the nonspecificity of the clinical syndromes and the lack of rapid diagnostic methods lead to underdiagnosis of infections. Because of the importance of *M. pneumoniae* as a cause of pneumonia, it is reasonable to perform diagnostic studies even retrospectively.

Four species in the family *Mycoplasmataceae* are found in the genital tract of humans. Of these, *Mycoplasma hominis* and *Ureaplasma urealyticum* are most frequently implicated in disease. Although only a few specialized laboratories have attempted isolation of *Mycoplasma* and *Ureaplasma* species, it appears that the infections involved may be significant enough that isolation services should be offered more widely.

This new *Cumitech* will assist laboratories in the diagnosis of infections caused by chlamydiae and mycoplasmas. While relatively few clinical microbiology laboratories perform cultures for

these organisms, some may wish to add these procedures, particularly if they currently provide viral cultures and are familiar with tissue culture technology.

The pamphlet includes guidelines to assist in the interpretation of both cultural and serological tests and will be invaluable in laboratory settings.

19. Laboratory Diagnosis of Chlamydial and Mycoplasmal Infections 18. Laboratory Diagnosis of Hepatitis Viruses 17. Laboratory Diagnosis of Female Genital Tract Infections 16. Laboratory Diagnosis of the Mycobacterioses 1A. Blood Cultures II (replaces *Cumitech 1, Blood Cultures*, October 1974) 15. Laboratory Diagnosis of Viral Infections 14. Laboratory Diagnosis of Central Nervous System Infections 13. Laboratory Diagnosis of Ocular Infections 12. Laboratory Diagnosis of Bacterial Diarrhea 11. Practical Methods for Culture and Identification of Fungi in the Clinical Microbiology Laboratory 10. Laboratory Diagnosis of Upper Respiratory Tract Infections 9. Collection and Processing of Bacteriological Specimens 8. Detection of Microbial Antigens by Counterimmunoelectrophoresis 7. Laboratory Diagnosis of Lower Respiratory Tract Infections 6. New Developments in Antimicrobial Agent Susceptibility Testing 5. Practical Anaerobic Bacteriology 4. Laboratory Diagnosis of Gonorrhea 3. Practical Quality Control Procedures for the Clinical Microbiology Laboratory 2. Laboratory Diagnosis of Urinary Tract Infections

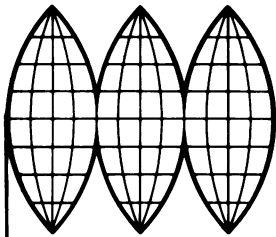
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Proceedings of the 2nd International Symposium

Editors: Clyde Thornsberry
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LEGIONELLA is a multidisciplinary, international work reflecting the breadth of ongoing studies of legionella and legionellosis. Contributions from the medical community include reports of research and clinical practice in microbiology, immunology, epidemiology, pathology, infectious disease, and other specialties. From the environmental community come studies in environmental microbiology, ecology, and environmental engineering, including heating, air conditioning, refrigeration, and sanitary engineering.

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