

The Pathogenic Neisseriae

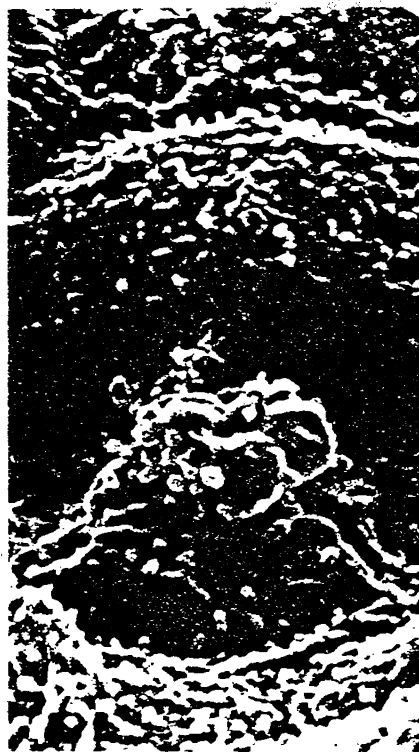
Proceedings of the Fourth International Symposium on the Pathogenic Neisseriae, Pacific Grove, California

Editor:

Gary K. Schoolnik

Coeditors:

Geo. F. Brooks, Stanley Falkow, Carl E. Frasch, Joan S. Knapp, J. Allen McCutchan, and Stephen A. Morse



The Fourth International Symposium on the Pathogenic Neisseriae focused on new work on the genetics, immunobiology, epidemiology, and control of *N. gonorrhoeae* and *N. meningitidis*, applying the latest advances in molecular biology. These studies, which contribute to fundamental concepts about the pathogenic strategy of mucosal pathogens, are presented in *The Pathogenic Neisseriae*.

The articles reflect significant progress in the cloning of genes encoding gonococcal virulence determinants, in creating and employing useful libraries of monoclonal antibodies to gonococci to further define gonococcal epidemiology, in investigating a novel mechanism for epithelial cell invasion by gonococci and meningococci, and in developing a group B meningococcal vaccine. Among other important findings in the book is the revelation, through visually remarkable electron micrographs, of an apparently orderly and analogous pathogenic sequence for gonococcus-human fallopian tube and meningococcus-nasal epithelium interactions.

Sections in the book include:

- Epidemiology of *Neisseria gonorrhoeae* Infections
- Neisserial Genetics
- Cell Surface Proteins of *Neisseria gonorrhoeae*: Pathogenic Roles and Implications for Vaccine Development
- *Neisseria gonorrhoeae* Pathobiology: Peptidoglycan, Lipopolysaccharide, and Iron-Regulated Proteins
- *Neisseria gonorrhoeae* Pathobiology: Interactions with Serum and Polymorphonuclear Leukocytes
- *Neisseria meningitidis*: Epidemiology, Pathobiology, and Vaccine Development

IMPORTANT READING FOR THE LAB OR CLINIC

The book will be of particular interest to scientists studying microbial pathogenesis, genetic mechanisms of antigenic variation, new strategies for vaccine development, and the cell surface of prokaryotes. It will be a valuable reference tool for infectious disease clinicians and public health professionals and for university, medical school, and industrial biotechnology laboratories.

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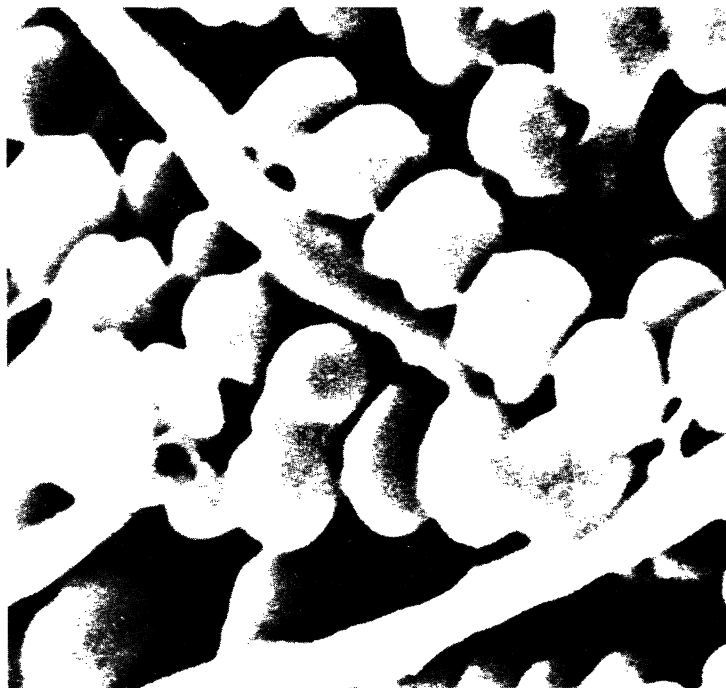
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Molecular Basis of Oral Microbial Adhesion

EDITORS: Stephan E. Mergenhagen and Burton Rosan

This 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
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- 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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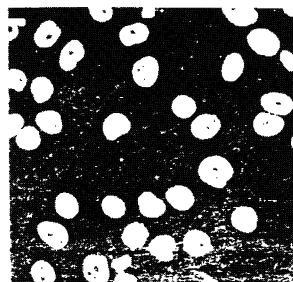
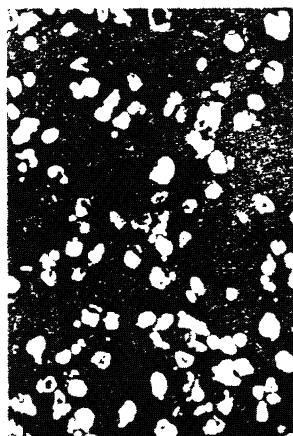
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