英文影印版

Gerald L. Mandell John E. Bennett Raphael Dolin

曼德尔-道格拉斯-贝内特 感染 海洋病 等

MANDELL, DOUGLAS, and BENNETT'S

Principles and Practice of Infectious Diseases

FIFTH EDITION

(第5版)

上 姗 Volume 1

辞学出版社 Harcourt Asia Churchill Livingstone



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感染病学

Mandell, Douglas and Bennett's Principles and Practice of Infectious Diseases

第5版 ● 上册

Fifth Edition • Volume 1

Gerald L. Mandell, MD John E. Bennett, MD Raphael Dolin, MD



科学出版社

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Infectious Diseases

Fifth Edition _

Edited by

Gerald L. Mandell, M.D.

Professor of Medicine Owen R. Cheatham Professor of the Sciences Chief, Division of Infectious Diseases University of Virginia Health Sciences Center Charlottesville, Virginia

John E. Bennett, M.D.

Head, Clinical Mycology Section Laboratory of Clinical Investigation National Institute of Allergy and Infectious Diseases National Institutes of Health Bethesda, Maryland

Raphael Dolin, M.D.

Dean for Clinical Programs Maxwell Finland Professor of Medicine Harvard Medical School Boston, Massachusetts

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Contributors

N. Franklin Adkinson, Jr., M.D.

Professor of Medicine, Johns Hopkins University School of Medicine; Co-Director, Division of Allergy and Clinical Immunology, Johns Hopkins Asthma and Allergy Center, Baltimore, Maryland

B-Lactam Allergy

David M. Allen, M.D., FAMS

Adjunct Assistant Professor of Medicine, Weill Medical College of Cornell University, New York, New York; Partner and Attending Physician, ID Associates, Dallas, Texas

Acinetobacter Species

Harvey J. Alter, M.D.

Clinical Professor of Medicine, Georgetown University School of Medicine, Washington, DC; Chief, Infectious Diseases Section, and Associate Director, Research Department of Transfusion Medicine, Warren G. Magnuson Clinical Center, National Institutes of Health, Bethesda, Maryland

Hepatitis G Virus and TT Virus

Guy W. Amsden, Pharm.D.

Adjunct Assistant Professor, Department of Pharmacology, Columbia University College of Physicians and Surgeons, New York; Adjunct Assistant Professor, Department of Pharmacy Practice, Albany College of Pharmacy, Union University, Albany; Clinical Pharmacy Specialist and Research Scientist, Clinical Pharmacology Research Center, Bassett Healthcare, Cooperstown, New York

Pharmacokinetics and Pharmacodynamics of Anti-infective Agents; Tables of Antimicrobial Agent Pharmacology

Elias Anaissie, M.D.

Professor of Medicine and Director of Clinical Affairs, Myeloma and Transplantation Research Center, University of Arkansas Medical Sciences, Little Rock, Arkansas Stenotrophomonas maltophilia and Burkholderia cepacia

Suresh J. Antony, M.D., FACP, FRCP

Assistant Professor, Texas Tech University Health Sciences Center School of Medicine; Infectious Disease Consultant, Texas Oncology Physician Associates, El Paso, Texas Streptococcus intermedius *Group*

Michael A. Apicella, M.D.

Professor and Head, Department of Microbiology, University of Iowa College of Medicine, Iowa City, Iowa Neisseria meningitidis

Gordon L. Archer, M.D.

Professor of Medicine and Microbiology/Immunology; Chairman, Division of Infectious Diseases, Department of Medicine, Virginia Commonwealth University School of Medicine, Richmond, Virginia Staphylococcus epidermidis and Other Coagulase-Negative Staphylococci

David A. Ashford, D.V.M., M.P.H., D.Sc.

Medical Epidemiologist, Meningitis and Special Pathogens Branch, Division of Bacterial and Mycotic Diseases, Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia

Leptospira Species (Leptospirosis)

Carol J. Baker, M.D.

Professor and Head, Section of Infectious Diseases, Department of Pediatrics, and Professor, Department of Microbiology and Immunology, Baylor College of Medicine; Attending Physician, Texas Children's Hospital, Houston, Texas Streptococcus agalactiae (Group B Streptococcus)

Ronald C. Ballard, Ph.D., M.I.Biol.

Associate Professor, Department of Clinical Microbiology and Infectious Diseases, School of Pathology, University of the Witwatersrand and South African Institute for Medical Research, Johannesburg, South Africa

Calymmatobacterium granulomatis (Donovanosis, Granuloma Inguinale)

Charles H. Ballow, M.S., Pharm.D.

Clinical Associate Professor, School of Pharmacy, State University of New York at Buffalo; Director, Antiinfectives Research, The Clinical Pharmacokinetics Laboratory, Kaleida Health/Millard Fillmore Hospital, Buffalo, New York

Pharmacokinetics and Pharmacodynamics of Anti-infective Agents

Kenneth J. Bart, M.D.

Dean, San Diego State University School of Public Health, San Diego, California
Immunization

Byron E. Batteiger, M.D.

Professor of Medicine and Microbiology and Immunology, Indiana University School of Medicine, Indianapolis, Indiana Chlamydia trachomatis (Trachoma, Perinatal Infections, Lymphogranuloma Venereum, and Other Genital Infections); Introduction to Chlamydial Diseases

Stephen G. Baum, M.D.

Professor of Medicine and Microbiology and Immunology, Albert Einstein College of Medicine of Yeshiva University, Bronx; Chairman, Department of Medicine, Beth Israel Medical Center, New York, New York

Adenovirus; Introduction to Mycoplasma Diseases; Mumps Virus; Mycoplasma pneumoniae and Atypical Pneumonia

Arnold S. Bayer, M.D.

Professor of Medicine, University of California, Los Angeles, UCLA School of Medicine, Los Angeles; Associate Chief, Adult Infectious Diseases, Harbor–UCLA Medical Center, Torrance, California

Endocarditis and Intravascular Infections

John E. Bennett, M.D.

Head, Clinical Mycology Section, Laboratory of Clinical
 Investigation, National Institute of Allergy and Infectious Diseases,
 National Institutes of Health, Bethesda, Maryland
 Antifungal Agents; Introduction to Mycoses; Miscellaneous Fungiand Prototheca

Joseph S. Bertino, Jr., Pharm.D.

Associate Professor of Clinical Pharmacology (in Medicine), Columbia University College of Physicians and Surgeons, New York; Co-Director, Clinical Pharmacology Research Center, Bassett Healthcare, Cooperstown, New York

Pharmacokinetics and Pharmacodynamics of Anti-infective Agents

Alan L. Bisno, M.D.

Professor and Vice-Chairman, Department of Medicine, University of Miami School of Medicine; Chief, Medical Service, Veterans Affairs Medical Center, Miami, Florida

Classification of Streptococci; Nonsuppurative Poststreptococcal Sequelae: Rheumatic Fever and Glomerulonephritis; Pharyngitis; Streptococcus pyogenes (Including Streptococcal Toxic Shock Syndrome and Necrotizing Fasciitis)

Martin J. Blaser, M.D.

Addison B. Scoville Professor of Medicine and Professor of Microbiology and Immunology, and Director, Division of Infectious Diseases, Vanderbilt University School of Medicine; Staff Physician, Veterans Affairs Medical Center, Nashville, Tennessee Campylobacter jejuni and Related Species; Helicobacter pylori and Related Organisms

Thomas P. Bleck, M.D.

Louise Nerancy Professor of Neurology and Professor of Neurological Surgery and Internal Medicine, University of Virginia School of Medicine; Director, Neuroscience Intensive Care Unit, University of Virginia Hospital, Charlottesville, Virginia Approach to the Patient with Central Nervous System Infection; Clostridium botulinum (Botulism); Clostridium tetani (Tetanus); Epidural Abscess; Rabies Virus; Subdural Empyema; Suppurative Intracranial Phlebitis

David A. Bobak, M.D.

Associate Professor of Medicine and Microbiology, University of Virginia School of Medicine; Director, Traveler's Clinic, and Attending Physician, University of Virginia Health Sciences Center, Charlottesville, Virginia

Nausea, Vomiting, and Noninflammatory Diarrhea

William Bonnez, M.D.

Associate Professor of Medicine, University of Rochester School of Medicine and Dentistry; Attending Physician, Department of Medicine, Strong Memorial Hospital, Rochester, New York **Papillomaviruses**

R.C. Boucher, M.D.

Professor of Medicine, University of North Carolina at Chapel Hill School of Medicine; Director, Division of Pulmonary/Critical Care Medicine, and Director, Cystic Fibrosis/Pulmonary Research and Treatment Center, UNC Hospitals, Chapel Hill, North Carolina Cystic Fibrosis

Barry D. Brause, M.D.

Clinical Professor of Medicine, Weill Medical College of Cornell University; Attending Physician, New York Presbyterian Hospital-Cornell Campus, and Hospital for Special Surgery, New York, New York

Infections with Prostheses in Bones and Joints

Arthur E. Brown, M.D.

Professor of Clinical Medicine and Pediatrics, Weill Medical College of Cornell University; Attending Physician, Infectious Disease Service, Memorial Sloan-Kettering Cancer Center; Attending Physician, New York Presbyterian Hospital-Cornell Campus; and Visiting Associate Physician, The Rockefeller University Hospital, New York, New York Other Corynebacteria and Rhodococcus

Barbara A. Brown, M.S., MT, ASCP, SM

Senior Research Scientist and Supervisor, Mycobacteria/Nocardia Laboratory; Study Coordinator, Mycobacterial Clinical Trials, University of Texas Health Center, Tyler, Texas Infections Due to Nontuberculous Mycobacteria

Eric J. Brown, M.D.

Professor, Program in Microbial Pathogenesis and Host Defense, University of California, San Francisco, School of Medicine, San Francisco, California

Cell-Mediated Immunity in Host Defense against Infectious Diseases

Kevin E. Brown, M.D.

Visiting Scientist, Hematology Branch, National Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, Maryland Parvovirus B19

Patricia D. Brown, M.D.

Assistant Professor of Medicine, Department of Internal Medicine, Division of Infectious Diseases, Wayne State University School of Medicine, Detroit, Michigan Infections in Injection Drug Users

Ralph T. Bryan, M.D.

Clinical Associate Professor of Medicine, University of New Mexico School of Medicine, Albuquerque, New Mexico; Medical Epidemiologist, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia Microsporidia

Richard E. Bryant, M.D.

Professor of Medicine (Emeritus), Department of Medicine, Infectious Diseases Division, Oregon Health Sciences University School of Medicine, Portland, Oregon Pleural Effusion and Empyema

James E. Burns, M.D., M.B.A.

Attending Physician, University of Virginia Health System, Department of Pediatrics, Division of Infectious Diseases, Charlottesville, Virginia **Epiglottitis**

Larry M. Bush, M.D., FACP

Chief of Staff and Chairman, Infectious Diseases, JFK Medical Center, West Palm Beach, Florida; formerly Assistant Clinical Professor of Medicine, Medical College of Pennsylvania (now MCP-Hahnemann School of Medicine), Philadelphia, Pennsylvania Peritonitis and Other Intra-abdominal Infections

Thomas Butler, M.D.

Professor of Internal Medicine, Texas Tech University Health Sciences Center School of Medicine; Chief of Infectious Diseases, Department of Internal Medicine, University Medical Center, Lubbock, Texas

Yersinia Species, Including Plague

Jason Calhoun, M.D., FACS

Professor and Chair, Department of Orthopedics and Rehabilitation, University of Texas Medical Branch, University of Texas Medical School at Galveston, Galveston, Texas

Osteomyelitis

Ellis S. Caplan, M.D.

Associate Professor of Medicine, Program in Traumatology, University of Maryland School of Medicine; Chief, Section of Infectious Diseases, R. A. Cowley Shock Trauma Center, Baltimore, Maryland

Hyperbaric Oxygen; Multiple Trauma

Charles C. J. Carpenter, M.D.

Professor of Medicine, Brown University School of Medicine, Providence, Rhode Island Other Pathogenic Vibrios

Mary T. Caserta, M.D.

Assistant Professor of Pediatrics, University of Rochester School of Medicine and Dentistry; Attending Physician, Department of Pediatrics, Strong Memorial Hospital, Rochester, New York

Acute Laryngitis

Richard E. Chaisson, M.D.

Professor of Medicine, Epidemiology, and International Health, Johns Hopkins University School of Medicine, Baltimore, Maryland Gastrointestinal and Hepatobiliary Manifestations of Human Immunodeficiency Virus Infection; General Clinical Manifestations of Human Immunodeficiency Virus Infection (Including Oral, Cutaneous, Renal, Ocular, and Cardiac Diseases)

Henry F. Chambers, M.D.

Professor of Medicine, University of California, San Francisco, School of Medicine; Chief, Infectious Diseases, San Francisco General Hospital, San Francisco, California

Other β-Lactam Antibiotics; Penicillins

Stanley W. Chapman, M.D.

Professor of Medicine and Associate Professor of Microbiology, University of Mississippi School of Medicine; Director, Division of Infectious Diseases, University of Mississippi Medical Center, Jackson, Mississippi

Blastomyces dermatitidis

Linda A. Chiarello, R.N., M.S.

Hospital Infections Program, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia

Human Immunodeficiency Virus in Health Care Settings

Anthony W. Chow, M.D., FRCPC, FACP

Professor of Medicine and Director, MD/PhD Program, Faculty of Medicine and Graduate Studies, University of British Columbia; Consultant, Division of Infectious Diseases, Department of Medicine, Vancouver Hospital and Health Sciences Centre, Vancouver, British Columbia, Canada

Infections of the Oral Cavity, Neck, and Head

Jeffrey D. Chulay, M.D., DTM&H

Principal Clinical Program Head, HIV and Opportunistic Infections Clinical Development, Glaxo Wellcome Inc., Research Triangle Park, North Carolina

Treponema Species (Yaws, Pinta, Bejel)

Claudia Cicala, Ph.D.

Staff Scientist, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland The Immunology of Human Immunodeficiency Virus Infection

H. Fred Clark, D.V.M., Ph.D.

Research Professor of Pediatrics, University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania Rotavirus

Rebecca A. Clark, M.D., Ph.D.

Associate Professor of Medicine, Tulane University School of Medicine; HIV Division Director, HIV Outpatient Program, Tulane University Hospital, New Orleans, Louisiana

Human Immunodeficiency Virus Infection in Women

Robert A. Clark, M.D.

Professor and Chairman, Department of Medicine, and Dan F. Parman Distinguished Chair in Medicine, University of Texas Medical School at San Antonio; Attending Physician, South Texas Veterans Health System and University Hospital, San Antonio, Texas

Granulocytic Phagocytes

Myron S. Cohen, M.D.

Professor of Medicine and Microbiology and Epidemiology, University of North Carolina at Chapel Hill School of Medicine; Chief, Division of Infectious Diseases, and Director, UNC Center for Infectious Diseases, Chapel Hill, North Carolina The Acutely III Patient with Fever and Rash

Oren Cohen, M.D.

Assistant Director for Medical Affairs, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland

The Immunology of Human Immunodeficiency Virus Infection

Susan E. Cohn, M.D., M.P.H.

Associate Professor of Medicine, University of Rochester School of Medicine and Dentistry, Rochester, New York

Human Immunodeficiency Virus Infection in Women

Lawrence Corey, M.D.

Professor of Laboratory Medicine and Medicine, University of Washington School of Medicine; Head, Virology Division, University of Washington Medical Center, and Head, Program in Infectious Diseases, Fred Hutchinson Cancer Research Center, Seattle, Washington

Herpes Simplex Virus

J. Thomas Cross, Jr., M.D., M.P.H.

Associate Professor, Department of Internal Medicine, Division of Infectious Diseases, and Department of Pediatrics, Louisiana State University School of Medicine in Shreveport, Shreveport, Louisiana Francisella tularensis (*Tularemia*)

Kent B. Crossley, M.D.

Professor of Medicine, University of Minnesota Medical School-Minneapolis; Chief, Education Service, Minneapolis Veterans Affairs Medical Center, Minneapolis, Minnesota Infections in the Elderly

Clyde S. Crumpacker, M.D.

Professor of Medicine, Harvard Medical School; Attending Physician, Infectious Diseases Division, Beth Israel Deaconess Medical Center, Boston, Massachusetts

Cytomegalovirus

James W. Curran, M.D., M.P.H.

Professor of Epidemiology and Dean, Rollins School of Public Health of Emory University, Atlanta, Georgia Epidemiology and Prevention of Acquired Immunodeficiency Syndrome and Human Immunodeficiency Virus Infection

Rabih O. Darouiche, M.D.

Associate Professor, Departments of Physical Medicine and Rehabilitation and Medicine, and Director, Center for Prostheses Infection, Baylor College of Medicine; Staff Physician, Spinal Cord Injury and Medical Services, Infectious Disease Section, Veterans Affairs Medical Center, Houston, Texas

Infections in Patients with Spinal Cord Injuries

George S. Deepe, Jr., M.D.

Morgan Professor of Medicine, University of Cincinnati College of Medicine; Chief, Division of Infectious Diseases, University Hospital, Cincinnati, Ohio

Histoplasma capsulatum

Carlos Del Rio, M.D.

Associate Professor of Medicine (Infectious Diseases), Emory University School of Medicine, and Adjunct Associate Professor of International Health, Rollins School of Public Health of Emory University; Associate Director of Clinical Activities, Grady Memorial Hospital and the Ponce de Leon Center, Atlanta, Georgia Epidemiology and Prevention of Acquired Immunodeficiency Syndrome and Human Immunodeficiency Virus Infection; Other Gram-Negative Bacilli

Lisa M. Demeter, M.D.

Assistant Professor of Medicine and Microbiology and Immunology, University of Rochester School of Medicine and Dentistry, Rochester, New York

Detection of Human Immunodeficiency Virus Infection; JC, BK, and Other Polyomaviruses; Progressive Multifocal Leukoencephalopathy

David W. Denning, M.B.B.S., FRCP, FRCPath

Senior Lecturer in Medicine (Infectious Diseases), University of Manchester; Consultant in Infectious Diseases, North Manchester General and Hope Hospitals, Manchester, England Aspergillus species

Peter Densen, M.D.

Professor of Internal Medicine and Associate Dean, University of Iowa College of Medicine, Iowa City, Iowa

Complement

Ben E. De Pauw, M.D., Ph.D.

Professor of Medicine for Supportive Care, Catholic University; Head, Blood Transfusion Service and Clinical Department of Hematology, University Hospital St. Radboud, Nijmegen, The Netherlands

Infections in the Immunocompromised Host: General Principles; Infections in Patients with Acute Leukemia and Lymphoma

Terence S. Dermody, M.D.

Associate Professor of Pediatrics and Microbiology and Immunology and Director, Elizabeth B. Lamb Center for Pediatric Research, Vanderbilt University School of Medicine, Nashville, Tennessee

Introduction to Viruses and Viral Diseases

Richard D. Diamond, M.D.

Professor of Medicine and Research and Professor of Biochemistry, Boston University School of Medicine; Attending Physician, Section of Infectious Diseases, Boston Medical Center, Boston, Massachusetts

Cryptococcus neoformans

William E. Dismukes, M.D.

Professor and Vice-Chairman, Department of Medicine, and Director, Division of Infectious Diseases, University of Alabama School of Medicine; Director, Internal Medicine Residency Training Program, University of Alabama at Birmingham Medical Center, Birmingham, Alabama

Chronic Pneumonia

Raphael Dolin, M.D.

Professor of Medicine and Dean for Clinical Programs, Harvard Medical School, Boston, Massachusetts

Astroviruses, Toroviruses, and Picobirnaviruses; Norwalk Virus and Other Caliciviruses; Vaccines for Human Immunodeficiency Virus Infection

J. Peter Donnelly, B.Sc., Ph.D.

Microbiologist, Division of Hematology, University Hospital, Nijmegen, The Netherlands

Infections in the Immunocompromised Host: General Principles

Gerald R. Donowitz, M.D.

Professor of Medicine, University of Virginia School of Medicine; Attending Physician, Department of Internal Medicine, Division of Infectious Diseases, University of Virginia Health Sciences Center, Charlottesville, Virginia

Acute Pneumonia; Oxazolidinones

J. Stephen Dumler, M.D.

Associate Professor, Departments of Pathology and Molecular Microbiology and Immunology, and Cellular and Molecular Medicine, Johns Hopkins University School of Medicine and School of Hygiene and Public Health; Director, Division of Medical Microbiology, Department of Pathology, Johns Hopkins Hospital, Baltimore, Maryland

Ehrlichia chaffeensis (Human Monocytotropic Ehrlichiosis), Ehrlichia phagocytophila (Human Granulocytotropic Ehrlichiosis), and Other Ehrlichiae; Rickettsia typhi (Murine Typhus)

J. Stephen Dummer, M.D.

Professor of Medicine, Vanderbilt University School of Medicine; Director, Transplant Infectious Diseases, The Transplant Center, Vanderbilt University Hospital, Nashville, Tennessee

Infections in Solid Organ Transplant Recipients; Risk Factors and Approaches to Infections in Transplant Recipients

Herbert L. DuPont, M.D.

H. Irving Schweppe, Jr., M.D. Chair in Internal Medicine, Baylor College of Medicine, and Mary W. Kelsey Professor, University of Texas Medical School at Houston; Chief, Internal Medicine Service, St. Luke's Episcopal Hospital, Houston, Texas Shigella Species (Bacillary Dysentery)

David T. Durack, M.B., D.Phil., FRCP, FRACP, FACP

Consulting Professor of Medicine, Duke University School of Medicine, Durham, North Carolina; Worldwide Medical Director, Becton Dickinson Microbiology Systems, Sparks, Maryland Fever of Unknown Origin; Prophylaxis of Infective Endocarditis

Michael B. Edmond, M.D., M.P.H.

Associate Professor and Associate Chair for Education, Department of Internal Medicine, Virginia Commonwealth University School of Medicine; Hospital Epidemiologist, Medical College of Virginia Hospitals, Richmond, Virginia

Isolation; Organization for Infection Control

John E. Edwards, Jr., M.D.

Professor of Medicine, University of California, Los Angeles, UCLA School of Medicine, Los Angeles; Chief, Division of Infectious Diseases, Harbor/UCLA Medical Center, Torrance, California

Candida Species

Morven S. Edwards, M.D.

Professor of Pediatrics, Baylor College of Medicine; Attending Physician, Texas Children's Hospital, Houston, Texas Streptococcus agalactiae (Group B Streptococcus)

Barry I. Eisenstein, M.D.

Professor of Medicine, Harvard Medical School; Vice President, Office of Science and Technology, Beth Israel Deaconess Medical Center, Boston, Massachusetts

Enterobacteriaceae; Introduction to Bacterial Diseases

Jerrold J. Ellner, M.D.

Professor of Medicine, Case Western Reserve University School of Medicine; Executive Vice Chair, Department of Medicine, University Hospitals of Cleveland, Cleveland, Ohio Chronic Meningitis; Mycobacterium avium Complex

Suzanne U. Emerson, Ph.D.

Head, Molecular Hepatitis Section, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland Hepatitis E Virus

N. Cary Engleberg, M.D.

Professor and Chief, Division of Infectious Diseases, Department of Internal Medicine, University of Michigan Medical School, Ann Arbor, Michigan

Chronic Fatigue Syndrome

Lawrence M. Fagan, M.D., Ph.D.

Co-Director, Medical Informatics Training Program, and Associate Director for External Affairs, Stanford Medical Informatics, Stanford University School of Medicine, Stanford, California The Infectious Diseases Physician and the Internet

Stanley Falkow, Ph.D.

Professor of Microbiology and Immunology, Stanford University School of Medicine, Stanford, California A Molecular Perspective of Microbial Pathogenicity

Judith Falloon, M.D.

Senior Investigator, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland Pulmonary Manifestations of Human Immunodeficiency Virus Infection

Barry M. Farr, M.D., M.Sc.

Professor of Medicine, Division of Epidemiology, University of Virginia School of Medicine, Charlottesville, Virginia Rifamycins

W. Edmund Farrar, M.D.

Professor Emeritus of Medicine, Medical University of South Carolina College of Medicine, Charleston, South Carolina Erysipelothrix rhusiopathiae

Anthony S. Fauci, M.D.

Director, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland The Immunology of Human Immunodeficiency Virus Infection

Daniel P. Fedorko, Ph.D.

Senior Staff Microbiologist, Department of Clinical Pathology, Warren G. Magnuson Clinical Center, National Institutes of Health, Bethesda, Maryland

The Clinician and the Microbiology Laboratory

Stephen M. Feinstone, M.D.

Chief, Laboratory of Hepatitis Viruses, Center for Biologic Evaluation and Research, Food and Drug Administration, Bethesda, Maryland

Acute Viral Hepatitis; Hepatitis A Virus

Robert Fekety, M.D.

Professor Emeritus of Internal Medicine, University of Michigan Medical School; Attending Physician, Division of Infectious Diseases, Department of Internal Medicine, University of Michigan Health System, Ann Arbor, Michigan

Vancomycin, Teicoplanin, and the Streptogramins: Quinupristin and Dalfopristin

Jo-David Fine, M.D.

Professor of Dermatology and Clinical Professor of Epidemiology, University of North Carolina at Chapel Hill School of Medicine; Attending Physician, UNC Hospitals; Principal Investigator and Head, National Epidermolysis Bullosa Registry, Chapel Hill, North Carolina

The Acutely III Patient with Fever and Rash

Steven M. Fine, M.D., Ph.D.

Senior Instructor in Medicine, Infectious Diseases Unit, University of Rochester School of Medicine and Dentistry; Attending Physician, Strong Memorial Hospital, Rochester, New York Vesicular Stomatitis and Related Viruses

Sydney M. Finegold, M.D.

Professor of Medicine and Microbiology and Immunology,
University of California, Los Angeles, UCLA School of Medicine;
Staff Physician, Infectious Diseases Section, Veterans Affairs
Medical Center West Los Angeles, Los Angeles, California

Anaerobic Bacteria: General Concepts; Lung Abscess; Metronidazole

Anthony E. Fiore, M.D.

Medical Epidemiologist, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia Multiple Trauma

Neil O. Fishman, M.D.

Assistant Professor of Medicine, University of Pennsylvania School of Medicine; Director, Antimicrobial Management Program, University of Pennsylvania Health System, Philadelphia, Pennsylvania

Antimicrobial Management and Cost Containment

Michael O. Frank, M.D.

Associate Professor of Medicine, Division of Infectious Diseases, Medical College of Wisconsin, Milwaukee, Wisconsin Immunomodulators

John Galgiani, M.D.

Professor of Medicine and Director, Valley Fever Center for Excellence, University of Arizona; Program Director, Infectious Diseases, Veterans Affairs Medical Center, Tucson, Arizona Coccidioides immitis

Joel E. Gallant, M.D., M.P.H.

Associate Professor of Medicine, Division of Infectious Diseases, Johns Hopkins University School of Medicine; Director, Moore HIV Clinic, Johns Hopkins Hospital, Baltimore, Maryland Global Perspectives on Human Immunodeficiency Virus Infection and Acquired Immunodeficiency Syndrome

John I. Gallin, M.D.

Director, Warren G. Magnuson Clinical Center, and Chief, Laboratory of Host Defenses, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland

Evaluation of the Patient with Suspected Immunodeficiency

Robert C. Gallo, M.D.

Institute of Human Virology, University of Maryland School of Medicine, Baltimore, Maryland

Human Immunodeficiency Viruses

Robert H. Gelber, M.D.

Clinical Professor of Medicine and Dermatology, University of California, San Francisco, School of Medicine; Attending Physician, San Francisco General Hospital, San Francisco, California

Mycobacterium leprae (Leprosy, Hansen's Disease)

Jeffrey A. Gelfand, M.D.

Professor of Medicine and Dean for Research, Tufts University School of Medicine; Senior Vice President, Research and Technology, New England Medical Center, Boston, Massachusetts Babesia

Julie Louise Gerberding, M.D., M.P.H.

Hospital Infections Program, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia

Human Immunodeficiency Virus in Health Care Settings

Anne A. Gershon, M.D.

Professor of Pediatrics and Director, Pediatric Infectious Diseases, Columbia University College of Physicians and Surgeons, New York, New York'

Measles Virus (Rubeola); Rubella Virus (German Measles)

David N. Gilbert, M.D.

Professor of Medicine, Oregon Health Sciences University School of Medicine; Director, Medical Education and Earle A. Chiles Research Institute, Providence Portland Medical Center, Portland, Oregon

Aminoglycosides

Vee J. Gill, Ph.D.

Special Expert, Microbiology, Microbiology Service, Department of Clinical Pathology, Warren G. Magnuson Clinical Center, National Institutes of Health, Bethesda, Maryland

Capnocytophaga; The Clinician and the Microbiology Laboratory

P. H. Gilligan, Ph.D.

Professor, Departments of Microbiology and Immunology and Pathology and Laboratory Medicine, University of North Carolina at Chapel Hill School of Medicine; Director, Clinical Microbiology/Immunology Laboratory, UNC Hospitals, Chapel Hill, North Carolina

Cystic Fibrosis

Howard S. Gold, M.D.

Instructor, Harvard Medical School; Attending Physician, Division of Infectious Diseases, Department of Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts

Introduction to Bacterial Diseases

Ellie J. C. Goldstein, M.D.

Clinical Professor of Medicine, University of California, Los Angeles, UCLA School of Medicine, Los Angeles; Director, R. M. Alden Research Laboratory, Santa Monica-UCLA Medical Center; Private Practice, Santa Monica, California

Linnie M. Golightly, M.D.

Assistant Professor of Medicine, Division of International Medicine and Infectious Diseases, Weill Medical College of Cornell University; Assistant Attending Physician, New York Presbyterian Hospital-Cornell Campus, New York, New York

Borrelia Species (Relapsing Fever)

Eduardo Gotuzzo, M.D.

Professor, Universidad Peruana Cayetano Heredia; Head, Infectious Disease Department, Hospital Nacional Cayetano Heredia, Lima, Peru

Vibrio cholerae

Paul S. Graman, M.D.

Associate Professor of Medicine, University of Rochester School of Medicine and Dentistry; Attending Physician, and Clinical Director, Infectious Diseases Unit, Strong Memorial Hospital, Rochester, New York

Esophagitis

J. Thomas Grayston, M.D.

Professor, Department of Epidemiology, School of Public Health and Community Medicine, University of Washington, Seattle, Washington

Chlamydia pneumoniae

John E. Greenlee, M.D.

Professor and Vice-Chair, Department of Neurology, University of Utah School of Medicine; Chief, Neurology Service, Veterans Affairs Medical Center, Salt Lake City, Utah

Approach to the Patient with Central Nervous System Infection; Epidural Abscess; Subdural Empyema; Suppurative Intracranial Phlebitis

Diane E. Griffin, M.D., Ph.D.

Professor and Chair, Department of Molecular Microbiology and Immunology, Johns Hopkins University School of Hygiene and Public Health, and Professor of Medicine and Neurology, Johns Hopkins University School of Medicine, Baltimore, Maryland Encephalitis, Myelitis, and Neuritis

Barbara M. Gripshover, M.D.

Assistant Professor of Medicine, Case Western Reserve University School of Medicine; Medical Director, John T. Carey Special Immunology Unit, University Hospitals of Cleveland, Cleveland, Ohio

Chronic Meningitis

David I. Grove, M.D.

Clinical Professor, Departments of Medicine and Microbiology, University of Adelaide; Director, Departments of Clinical Microbiology and Infectious Diseases, The Queen Elizabeth Hospital, Adelaide, South Australia, Australia

Tissue Nematodes (Trichinosis, Dracunculiasis, Filariasis)

Richard L. Guerrant, M.D.

Thomas H. Hunter Professor of International Medicine, Department of Medicine, University of Virginia School of Medicine; Chief, Division of Geographic and International Medicine, and Director, Office of International Health, University of Virginia Hospital, Charlottesville, Virginia

Enteric Fever and Other Causes of Abdominal Symptoms with Fever; Inflammatory Enteritides; Nausea, Vomiting, and Noninflammatory Diarrhea; Principles and Syndromes of Enteric Infection; Tropical Sprue/Enteropathy

lan D. Gust, M.D.

Professor, Monash University Faculty of Medicine, Chadstone; Professional Associate, University of Melbourne Faculty of Medicine, Dentistry and Health Sciences, Parkville; Director, Research and Development, CSL Limited, Parkville, Victoria, Australia

Hepatitis A Virus

Jack M. Gwaltney, Jr., M.D.

Wade Hampton Frost Professor of Internal Medicine, Department of Medicine, University of Virginia School of Medicine; Head, Division of Epidemiology and Virology, and Director, Center for the Prevention of Disease and Injury, University of Virginia Health Sciences Center, Charlottesville, Virginia

Acute Bronchitis; The Common Cold; Pharyngitis; Rhinovirus; Sinusitis

David W. Haas, M.D.

Associate Professor of Medicine, Vanderbilt University School of Medicine; Director, Clinical Infectious Diseases Services, Vanderbilt University Medical Center, Nashville, Tennessee Mycobacterium tuberculosis

Professor of Pediatrics and Medicine in Infectious Diseases. University of Rochester School of Medicine and Dentistry, Rochester, New York

Acute Laryngotracheobronchitis (Croup); Bronchiolitis; Respiratory Syncytial Virus

W. Lee Hand, M.D.

Professor and Assistant Dean for Research, Department of Internal Medicine, Texas Tech University Health Sciences Center School of Medicine, El Paso, Texas

Haemophilus Species (Including Chancroid)

H. Hunter Handsfield, M.D.

Caroline Breese Hall, M.D.

Professor of Medicine, University of Washington School of Medicine; Director, STD Control Program, Public Health-Seattle and King County, Seattle, Washington Neisseria gonorrhoeae

George J. Hanna, M.D.

Research Fellow in Medicine, Harvard Medical School; Clinical and Research Fellow in Medicine, Massachusetts General Hospital, Boston, Massachusetts

Antiretroviral Therapy of Human Immunodeficiency Virus Infection

Barry J. Hartman, M.D.

Clinical Professor of Medicine, Weill Medical College of Cornell University; Attending Physician, New York Presbyterian Hospital-Cornell Campus, New York, New York Acinetobacter Species

M. Shahbaz Hasan, M.B.B.S.

Assistant Professor, Department of Internal Medicine, University of Texas Southwestern Medical Center at Dallas Southwestern Medical School; Staff Physician, Dallas Veterans Affairs Medical Center, Dallas, Texas

Infectious Arthritis

Diane V. Havlir, M.D.

Associate Professor, Division of Infectious Disease, Department of Medicine, University of California, San Diego, School of Medicine, La Jolla, California

Mycobacterium avium Complex

Roderick J. Hay, D.M., FRCP, FRCPath

Mary Dunhill Professor of Cutaneous Medicine, St. John's Institute of Dermatology, Guys, King's and St. Thomas School of Medicine (KCL), London, England

Dermatophytosis and Other Superficial Mycoses

Frederick G. Hayden, M.D.

Stuart S. Richardson Professor of Clinical Virology and Professor of Internal Medicine and Pathology, University of Virginia School of Medicine; Associate Director, Clinical Microbiology Laboratory, University of Virginia Health Sciences Center, Charlottesville, Virginia

Antiviral Drugs (Other Than Antiretrovirals)

Craig W. Hedberg, Ph.D.

Acute Disease Epidemiology Section, Minnesota Department of Health, Minneapolis, Minnesota Epidemiologic Principles

Frederick P. Heinzel, M.D.

Associate Professor, Department of Medicine, Division of Geographic Medicine, Case Western Reserve University School of Medicine; Staff Physician, Veterans Affairs Medical Center, Cleveland, Ohio

Antibodies

David K. Henderson, M.D.

Deputy Director, Warren G. Magnuson Clinical Center, National Institutes of Health, Bethesda, Maryland

Infections Due to Percutaneous Intravascular Devices; Nosocomial Herpesvirus Infections

J. Owen Hendley, M.D.

Professor of Pediatrics, University of Virginia School of Medicine; Attending Physician, Department of Pediatrics, Division of Pediatric Infectious Diseases, University of Virginia Health System. Charlottesville, Virginia **Epiglottitis**

Erik L. Hewlett, M.D.

Professor of Medicine and Pharmacology and Associate Dean for Research, University of Virginia School of Medicine, Charlottesville, Virginia

Bordetella Species; Toxins

Adrian V. S. Hill, D.Phil., D.M.

Professor of Human Genetics, University of Oxford; Noffield Department of Medicine, John Radcliffe Hospital, Oxford, England Human Genetics and Infection

David R. Hill, M.D.

Associate Professor, Department of Medicine, Division of Infectious Diseases, University of Connecticut School of Medicine; Director, International Travelers' Medical Service, University of Connecticut Health Center, Farmington, Connecticut Giardia lamblia

Alan R. Hinman, M.D., M.P.H.

Senior Consultant for Public Health Programs, Task Force for Child Survival and Development, Decatur, Georgia **Immunization**

Martin S. Hirsch, M.D.

Professor of Medicine, Harvard Medical School; Director, AIDS Clinical Research, Massachusetts General Hospital, Boston,

Antiretroviral Therapy of Human Immunodeficiency Virus Infection

Monto Ho, M.D.

Professor of Medicine and Microbiology and Pathology, Emeritus, Graduate School of Public Health and School of Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania Infections in Solid Organ Transplant Recipients; Risk Factors and Approaches to Infections in Transplant Recipients

Steven M. Holland, M.D.

Investigator and Head, Immunopathogenesis Unit, Clinical Pathophysiology Section, Laboratory of Host Defenses, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland

Evaluation of the Patient with Suspected Immunodeficiency

Robert G. Holloway, Jr., M.D., M.P.H.

Assistant Professor of Neurology and Community and Preventive Medicine, University of Rochester School of Medicine and Dentistry, Rochester, New York

Neurologic Manifestations of Human Immunodeficiency Virus Infection

David C. Hooper, M.D.

Associate Professor of Medicine, Harvard Medical School; Fellowship Program Director, Infectious Disease Division, and Associate Chief, Infection Control Unit, Massachusetts General Hospital, Boston, Massachusetts

Quinolones; Urinary Tract Agents: Nitrofurantoin and Methenamine

David L. Hoover, M.D.

Associate Professor, Department of Medicine, Uniformed Services University of the Health Sciences, F. Edward Hébert School of Medicine, Bethesda, Maryland; Department of Bacterial Diseases, Walter Reed Army Institute of Research, Washington, D.C. Innate (General or Nonspecific) Host Defense Mechanisms

Duane R. Hospenthal, M.D., Ph.D.

Assistant Chief, Infectious Disease Service (MCHK-DMI), Tripler Army Medical Center, Honolulu, Hawaii

Miscellaneous Fungi and Prototheca

James M. Hughes, M.D.

Clinical Associate Professor of Medicine, Division of Infectious Diseases, Department of Medicine, Emory University School of Medicine, and Adjunct Professor, Department of Epidemiology, Rollins School of Public Health of Emory University; Director, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia

Foodborne Disease; New and Emerging Infectious Diseases

Jainulabdeen J. Ifthikharuddin, M.D., MRCP(UK), MRCPath

Senior Instructor, University of Rochester School of Medicine and Dentistry; Attending Physician, Strong Memorial Hospital, Rochester, New York

Human T-Cell Lymphotropic Virus Types I and II

Jonathan R. Iredell, M.B.B.S., Ph.D., FRACP, FRCPA

Senior Lecturer, Faculty of Medicine, University of Sydney; Staff Specialist, Centre for Infectious Diseases and Microbiology, Westmead Hospital, Westmead, New South Wales, Australia Nocardia Species

Lisa A. Jackson, M.D., M.P.H.

Assistant Professor, Department of Epidemiology, School of Public Health and Community Medicine, University of Washington; Assistant Investigator, Center for Health Studies, Group Health Cooperative, Seattle, Washington

Chlamydia pneumoniae

Selma M. B. Jeronimo, M.D., Ph.D.

Professor of Biochemistry, Universidade Federal do Rio Grande do Norte, Natal, Rio Grande do Norte, Brazil

Leishmania Species: Visceral (Kala-Azar), Cutaneous, and Mucosal Leishmaniasis

Caroline C. Johnson, M.D.

Associate Professor of Medicine, MCP-Hahnemann School of Medicine; Medical Director, Acute Communicable Disease Control Program, Philadelphia Department of Public Health, Philadelphia, Pennsylvania

Viridans Streptococci and Groups C and G Streptococci

Raymond M. Johnson, M.D., Ph.D.

Howard Hughes Postdoctoral Fellow, Department of Infectious Diseases, Washington University School of Medicine, St. Louis, Missouri

Cell-Mediated Immunity in Host Defense against Infectious Diseases

Warren D. Johnson, Jr., M.D.

B. H. Kean Professor of Tropical Medicine and Professor of Medicine, Weill Medical College of Cornell University; Attending Physician and Medical Director, International Health Care Service, and Chief, Division of International Medicine and Infectious Diseases, New York Presbyterian Hospital—Cornell Campus, New York, New York

Borrelia Species (Relapsing Fever)

Robert B. Jones, M.D., Ph.D.

Professor of Medicine and Microbiology and Immunology, Indiana University School of Medicine, Indianapolis, Indiana Chlamydia trachomatis (Trachoma, Perinatal Infections, Lymphogranuloma Venereum, and Other Genital Infections); Introduction to Chlamydial Diseases

Manjari Joshi, M.D.

R. A. Cowley Shock Trauma Center, University of Maryland Medical System, Baltimore, Maryland Multiple Trauma

Allen B. Kaiser, M.D.

Professor and Vice-Chairman, Department of Medicine, Vanderbilt University School of Medicine, Nashville, Tennessee

Postoperative Infections and Antimicrobial Prophylaxis

Adolf W. Karchmer, M.D.

Professor of Medicine, Harvard Medical School; Chief, Division of Infectious Diseases, Beth Israel Deaconess Medical Center, Boston, Massachusetts

Cephalosporins; Infections of Prosthetic Valves and Intravascular Devices

Hiroshi Kawai, M.D.

Department of Internal Medicine, University of Kanazawa School of Medicine, Kanazawa, Japan

Acute Viral Hepatitis

Donald Kaye, M.D.

Professor of Medicine, MCP-Hahnemann School of Medicine, Philadelphia, Pennsylvania Urinary Tract Infections

Michael C. Keefer, M.D.

Associate Professor of Medicine, University of Rochester School of Medicine and Dentistry, Rochester, New York

Vaccines for Human Immunodeficiency Virus-1 Infection

Douglas S. Kernodle, M.D.

Associate Professor, Department of Medicine, Vanderbilt University School of Medicine; Chief, Infectious Diseases Section, Veterans Affairs Medical Center, Nashville, Tennessee

Postoperative Infections and Antimicrobial Prophylaxis

Jay S. Keystone, M.D., M.Sc.(CTM), FRCPC

Professor of Medicine, University of Toronto Faculty of Medicine; Staff Physician, Centre for Travel and Tropical Medicine, Toronto General Hospital, Toronto, Ontario, Canada

Isospora belli, Sarcocystis *Species*, Blastocystis hominis, *and* Cyclospora

Karl D. Kieburtz, M.D., M.P.H.

Associate Professor of Neurology and Community and Preventive Medicine, University of Rochester School of Medicine and Dentistry, Rochester, New York

Neurologic Manifestations of Human Immunodeficiency Virus Infection

Charles H. King, M.D.

Associate Professor of Medicine and International Health, Case Western Reserve University School of Medicine; Attending Physician, University Hospitals, Cleveland, Ohio Cestodes (Tapeworms)

Louis V. Kirchhoff, M.D., M.P.H.

Professor, Department of Internal Medicine, University of Iowa College of Medicine; Staff Physician, Medical Service, Department of Veterans Affairs Medical Center, Iowa City, Iowa

Agents of African Trypanosomiasis (Sleeping Sickness); Trypanosoma Species (American Trypanosomiasis, Chagas' Disease): Biology of Trypanosomes

Jerome O. Klein, M.D.

Professor of Pediatrics, Boston University School of Medicine; Vice-Chairman for Academic Affairs, Boston Medical Center, Boston, Massachusetts

Otitis Externa, Otitis Media, and Mastoiditis

M. R. Knowles, M.D.

Professor of Medicine, University of North Carolina at Chapel Hill School of Medicine; Associate Director, Division of Pulmonary Critical Care Medicine, and Director, Adult Cystic Fibrosis Center, UNC Hospitals, Chapel Hill, North Carolina Cystic Fibrosis

Phyllis Kozarsky, M.D.

Associate Professor of Medicine, Emory University School of Medicine; Chief of Infectious Diseases, Emory Crawford Long Hospital, Atlanta, Georgia

Isospora belli, Sarcocystis *Species,* Blastocystis hominis, *and* Cyclospora

John N. Krieger, M.D.

Professor of Urology, University of Washington School of Medicine; Chief of Urology, Veterans Affairs Puget Sound Health Care System, and Attending Surgeon, University of Washington Medical Center and Harborview Medical Center, Seattle, Washington

Prostatitis, Epididymitis, and Orchitis

Donald J. Krogstad, M.D.

Henderson Professor and Chair, Department of Tropical Medicine, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana

Plasmodium Species (Malaria)

Joshua Lederberg, Ph.D., M.D.(Hic.)

Professor, The Rockefeller University, New York, New York Biological Warfare and Bioterrorism

James W. Leduc, Ph.D.

Associate Director for Global Health, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia

Global Epidemiology of Infectious Diseases

Stanley M. Lemon, M.D.

Professor and Chairman, Department of Microbiology and Immunology, University of Texas Medical Branch University of Texas Medical School of Galveston, Galveston, Texas Hepatitis C

Donald P. Levine, M.D.

Professor of Medicine, Department of Medicine, Division of Infectious Diseases, Wayne State University School of Medicine; Vice-Chief of Medicine and Section Head, Infectious Diseases, Detroit Receiving Hospital, Detroit, Michigan

Infections in Injection Drug Users

Matthew E. Levison, M.D.

Professor of Medicine and Public Health, MCP-Hahnemann School of Medicine; Chief, Division of Infectious Diseases, Hahnemann University Hospital, Philadelphia, Pennsylvania

Peritonitis and Other Intra-abdominal Infections

Daniel P. Lew, M.D.

Professor of Medicine, Geneva University Medical School; Chief, Infectious Diseases Division, Geneva University Hospital, Geneva, Switzerland

Bacillus anthracis (Anthrax)

Aldo A. M. Lima, M.D., Ph.D.

Professor of Medicine, Federal University of Ceará, Fortaleza, Brazil

Inflammatory Enteritides

Nathan Litman, M.D.

Professor of Pediatrics, Albert Einstein College of Medicine of Yeshiva University; Chief, Pediatric Service, Montefiore Medical Center, Bronx, New York

Mumps Virus

Bennett Lorber, M.D., D.Sc. (Hon.)

Thomas M. Durant Professor of Medicine and Professor of Microbiology and Immunology, Temple University School of Medicine; Chief, Section of Infectious Diseases, Temple University Hospital, Philadelphia, Pennsylvania

Bacteroides, Prevotella, Porphyromonas, and Fusobacterium Species (and Other Medically Important Anaerobic Gram-Negative Bacilli); Gas Gangrene and Other Clostridium-Associated Diseases; Listeria monocytogenes

Larry I. Lutwick, M.D.

Professor of Medicine, State University of New York Health Science Center at Brooklyn College of Medicine; Director, Infectious Diseases, Veterans Affairs New York Harbor Health Care System, Brooklyn Campus, Brooklyn, New York

Infections in Asplenic Patients

Rob Roy MacGregor, M.D.

Professor of Medicine, Department of Medicine, Division of Infectious Diseases, University of Pennsylvania School of Medicine; Attending Physician, Hospital of the University of Pennsylvania, and Acting Chief, Infectious Disease Division, Philadelphia Veterans Affairs Medical Center, Philadelphia, Pennsylvania

Corynebacterium diphtheriae

Philip A. Mackowiak, M.D.

Professor and Vice Chairman, Department of Medicine, University of Maryland School of Medicine; Chief, Medical Care Clinical Center, Veterans Affairs Maryland Health Care System, Baltimore, Maryland

Fever of Unknown Origin; Temperature Regulation and Pathogenesis of Fever

Antone A. Madeiros, M.D.

Professor of Medicine, Brown University School of Medicine; Director, Division of Infectious Diseases, Miriam Hospital, and Medical Director, Clinical Microbiology Laboratory, Lifespan Academic Medical Center, Providence, Rhode Island Mechanisms of Bacterial Antibiotic Resistance

Jon T. Mader, M.D.

Professor, Department of Internal Medicine, Division of Infectious Diseases, University of Texas Medical Branch University of Texas Medical School at Galveston, Galveston, Texas Osteomyelitis

El Sheikh Mahgoub, M.D., Ph.D., FRCPath

Professor of Medical Microbiology, Faculty of Medicine, University of Science and Technology, Jordan; Formerly Regional Adviser, Research Promotion and Strategy Coordination, World Health Organization, Eastern Mediterranean Region, Alexandria, Egypt Agents of Mycetoma

Adel A. F. Mahmoud, M.D., Ph.D.

Formerly Professor and Chairman of Medicine, Case Western Reserve University School of Medicine, and Physician-in-Chief, University Hospitals, Cleveland, Ohio; President, Merck Vaccines, Merck & Co., Inc., Whitehouse Station, New Jersey Intestinal Nematodes (Roundworms); Introduction to Helminth Infections; Trematodes (Schistosomiasis) and Other Flukes

Gerald L. Mandell, M.D.

Professor of Medicine and Owen R. Cheatham Professor of the Sciences, University of Virginia School of Medicine; Chief, Division of Infectious Diseases, University of Virginia Health Sciences Center, Charlottesville, Virginia

Acute Pneumonia; Immunomodulators

Lionel A. Mandell, M.D.

Professor of Medicine, McMaster Medical Unit, Henderson General Hospital, Hamilton, Ontario, Canada Fusidic Acid

Barbara J. Mann, Ph.D.

Assistant Professor of Research, Department of Internal Medicine, Division of Infectious Diseases, University of Virginia School of Medicine, Charlottesville, Virginia

Microbial Adherence

Lewis Markoff, M.D.

Chief, Laboratory of Vector-Borne Virus Diseases, Division of Viral Products, Center for Biologic Evaluation and Research, Food and Drug Administration, Bethesda, Maryland

Alphaviruses

Thomas J. Marrie, M.D., FRCPC

Professor and Chair, Department of Medicine, University of Alberta Faculty of Medicine; Site Chief, Medicine, University of Alberta Hospital, Edmonton, Alberta, Canada Coxiella burnetii (Q Fever)

Thomas Marth, M.D.

Professor of Internal Medicine II, Saarland University, Homburg, Germany

Whipple's Disease

Ellen M. Mascini, M.D., Ph.D.

Senior Fellow in Medical Microbiology, Eijkman-Winkler Institute for Microbiology, Infectious Diseases, and Inflammation, University Medical Centre, Utrecht, The Netherlands

Anaerobic Cocci; Anaerobic Gram-Positive Nonsporulating Bacilli

Henry Masur, M.D.

Chief, Critical Care Medicine Department, Clinical Center, National Institutes of Health, Bethesda, Maryland

Management of Opportunistic Infections Associated with Human Immunodeficiency Virus Infection

Michael Eric Mathieu, M.D.

Clinical Instructor in Dermatology, Dermatology Department, University of Virginia School of Medicine; Associate, Dermatology PLC of Charlottesville, Charlottesville, Virginia

Introduction to Ectoparasitic Diseases; Lice (Pediculosis); Mites (Including Chiggers); Myiasis; Scabies; Ticks (Including Tick Paralysis)

Kenneth H. Mayer, M.D.

Professor of Medicine and Community Health, Brown University School of Medicine, Providence, Rhode Island; Chief, Infectious Disease Service, Memorial Hospital of Rhode Island, Pawtucket, Rhode Island, and Medical Research Director, Fenway Community Health Center, Boston, Massachusetts

Mechanisms of Bacterial Antibiotic Resistance; Sulfonamides and Trimethoprim

John T. McBride, M.D.

Professor of Pediatrics, Northeast Ohio Universities College of Medicine, Rootstown; Vice-Chair, Department of Pediatrics, Children's Hospital Medical Center of Akron, Akron, Ohio Acute Laryngotracheitis (Croup); Bronchiolitis

Carol A. McCarthy, M.D.

Associate Professor of Pediatrics, University of Vermont College of Medicine, Burlington, Vermont; Director, Pediatric Infectious Disease, Maine Medical Center, Portland, Maine Respiratory Syncytial Virus

William M. McCormack, M.D.

Professor of Medicine and Obstetrics and Gynecology, State University of New York Health Science Center at Brooklyn College of Medicine, Brooklyn, New York Urethritis

Joseph E. McDade, Ph.D.

Deputy Director, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia New and Emerging Infectious Diseases

Kenneth McIntosh, M.D.

Professor of Pediatrics, Harvard Medical School; Chief, Division of Infectious Diseases, Children's Hospital, Boston, Massachusetts Coronaviruses

Philip B. Mead, M.D.

Professor and Chair, Department of Obstetrics and Gynecology, University of Vermont College of Medicine; Obstetrician and Gynecologist-in-Chief, Fletcher Allen Health Care, Burlington, Vermont

Infections of the Female Pelvis

Michael H. Merson, M.D.

Professor and Dean of Public Health, and Chairman, Department of Epidemiology and Public Health, Yale University School of Medicine, New Haven, Connecticut

Global Perspectives on Human Immunodeficiency Virus Infection and Acquired Immunodeficiency Syndrome

Françoise Meunier, M.D., Ph.D.

Director, Central Office—Data Center, and Chairman, Invasive Fungal Infections Cooperative Group, European Organization for Research and Treatment of Cancer, Brussels, Belgium Infections in Patients with Acute Leukemia and Lymphoma

Samuel I. Miller, M.D.

Professor of Medicine and Microbiology, Department of Medicine, Division of Allergy and Infectious Diseases, University of Washington School of Medicine, Seattle, Washington Salmonella Species, Including Salmonella typhi

David H. Mitchell, M.B.B.S., M.Med.Sci.(Epi.)

Clinical Lecturer, Department of Infectious Disease, University of Sydney, Sydney; Staff Specialist, Centre for Infectious Diseases and Microbiology, Institute of Clinical Pathology and Medical Research, Westmead Hospital, Westmead, New South Wales, Australia Nocardia Species

John F. Modlin, M.D.

Professor of Pediatrics and Medicine and Acting Chair, Department of Pediatrics, Dartmouth Medical School, Hanover; Attending Physician, Infectious Disease Section, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire

Coxsackieviruses, Echoviruses, and Newer Enteroviruses; Introduction to Picornaviridae; Poliovirus

Robert C. Moellering, Jr., M.S., M.D., D.Sc.(hon)

Herrman L. Blumgart Professor of Medicine, Harvard Medical School; Physician-in-Chief and Chairman, Department of Medicine, and Chief Executive Officer, Harvard Medical Faculty Physicians, Beth Israel Deaconess Medical Center, Boston, Massachusetts

Enterococcus Species, Streptococcus bovis, and Leuconostoc Species; Principles of Anti-infective Therapy

Jose G. Montoya, M.D.

Assistant Professor of Medicine, Division of Infectious Diseases and Geographic Medicine, Stanford University School of Medicine, Stanford, California

Toxoplasma gondii

Kristine A. Moore, M.D., M.P.H.

Medical Director, Infection Control Advisory Network, Inc., Eden Prairie, Minnesota

Epidemiologic Principles

J. Glenn Morris, Jr., M.D., M.P.H.T.M.

Professor of Medicine, Epidemiology and Preventive Medicine, and Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, Maryland

Human Illness Associated with Harmful Algal Blooms

E. Richard Moxon M.A., M.B., B.Chir.

Professor and Head, Department of Paediatrics, University of Oxford, and Head, Molecular Infectious Diseases Group, University of Oxford Institute of Molecular Medicine, John Radcliffe Hospital, Oxford, England

Haemophilus influenzae

Robert R. Muder, M.D.

Associate Professor of Medicine, University of Pittsburgh School of Medicine; Hospital Epidemiologist, Veterans Affairs Pittsburgh Healthcare System, Pittsburgh, Pennsylvania

Other Legionella Species

Jean Marie Mulinde, M.D.

Assistant Professor of Medicine, Program in Traumatology, University of Maryland School of Medicine; Attending Physician, Section of Infectious Diseases, R. A. Cowley Shock Trauma Center, Baltimore, Maryland Hyperbaric Oxygen

Timothy F. Murphy, M.D.

Professor of Medicine and Microbiology, State University of New York at Buffalo School of Medicine and Biomedical Sciences; Chief, Division of Infectious Diseases, Veterans Affairs Medical Center, Buffalo, New York

Haemophilus influenzae; Moraxella (Branhamella) catarrhalis and Other Gram-Negative Cocci

Daniel M. Musher, M.D.

Professor of Medicine and Microbiology and Immunology, Baylor College of Medicine; Chief, Infectious Diseases Section, Veterans Affairs Medical Center, Houston, Texas

Streptococcus pneumoniae

Theodore E. Nash, M.D.

Senior Scientist, Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland

Visceral Larva Migrans and Other Unusual Helminth Infections

William M. Nauseef, M.D.

Professor, Department of Internal Medicine, Inflammation Program, University of Iowa College of Medicine; Attending Physician, Veterans Affairs Medical Center, Iowa City, Iowa Granulocytic Phagocytes

John M. Neff, M.D.

Professor of Pediatrics, University of Washington School of Medicine; Director, Center for Children with Special Needs and Chronic Health Conditions, Children's Hospital and Regional Medical Center, Seattle, Washington

Introduction to Poxviridae; Parapoxviruses, Molluscum Contagiosum, and Tanapox Viruses; Vaccinia Virus (Cowpox); Variola (Smallpox) and Monkeypox Viruses

Marguerite A. Neill, M.D.

Associate Professor, Department of Medicine, Division of Infectious Diseases, Brown University School of Medicine, Providence; Attending Physician, Division of Infectious Diseases, Memorial Hospital of Rhode Island, Pawtucket, Rhode Island Other Pathogenic Vibrios

Terrence P. O'Brien, M.D.

Assistant Professor, Wilmer Eye Institute, Johns Hopkins Hospital, Baltimore, Maryland

Conjunctivitis; Endophthalmitis; Keratitis; Periocular Infections

Paul A. Offit, M.D.

Henle Professor of Immunologic and Infectious Diseases, University of Pennsylvania School of Medicine; Chief, Section of Infectious Diseases, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania Rotavirus

Pablo C. Okhuysen, M.D.

Associate Professor of Medicine, Division of Infectious Diseases, University of Texas Medical School at Houston; Assistant Professor of Biological Sciences, University of Texas-Houston School of Public Health, Houston, Texas

Sporothrix schenckii

Steven M. Opal, M.D.

Professor of Medicine, Brown University School of Medicine, Providence; Director, Infection Control Service, Memorial Hospital of Rhode Island, Pawtucket, Rhode Island Mechanisms of Bacterial Antibiotic Resistance

Walter A. Orenstein, M.D.

Director, National Immunization Program, Centers for Disease Control and Prevention, and Assistant Surgeon General, U.S. Public Health Service, Atlanta, Georgia

Immunization

Michael T. Osterholm, Ph.D., M.P.H.

Chairman and Chief Executive Officer, Infection Control Advisory Network, Inc., Eden Prairie, Minnesota Epidemiologic Principles

Stephen M. Ostroff, M.D.

Associate Director for Epidemiologic Science, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia

Global Epidemiology of Infectious Diseases

Michael N. Oxman, M.D.

Professor of Medicine and Pathology, University of California, San Diego, School of Medicine, La Jolla; Staff Physician, Infectious Diseases Section, Veterans Affairs San Diego Healthcare System, San Diego, California

Myocarditis and Pericarditis

Richard D. Pearson, M.D.

Professor, Department of Medicine, Division of Geographic and International Medicine, and Department of Pathology, University of Virginia School of Medicine, Charlottesville, Virginia

Agents Active Against Parasites and Pneumocystis carinii; Enteric Fever and Other Causes of Abdominal Symptoms with Fever; Leishmania Species: Visceral (Kala-Azar), Cutaneous, and Mucosal Leishmaniasis

David A. Pegues, M.D.

Assistant Clinical Professor, Department of Medicine, University of California, Los Angeles, UCLA School of Medicine; Hospital Epidemiologist and Attending Physician, Division of Infectious Diseases, UCLA Center for Health Sciences, Los Angeles, California

Salmonella Species, Including Salmonelli typhi

Robert L. Penn, M.D.

Professor, Department of Medicine, Louisiana State University School of Medicine in Shreveport; Chief, Infectious Diseases Section, Louisiana State University Hospital—Shreveport, Shreveport, Louisiana

Francisella tularensis (Tularemia)

Bradley A. Perkins, M.D.

Centers for Disease Control and Prevention, Atlanta, Georgia Leptospira Species (Leptospirosis)

C. J. Peters, M.D.

Adjunct Professor, Department of Microbiology and Immunology, Emory University School of Medicine; Chief, Special Pathogens Branch, Centers for Disease Control and Prevention, Atlanta, Georgia

California Encephalitis, Hantavirus Pulmonary Syndrome, and Bunyaviridae Hemorrhagic Fevers; Lymphocytic Choriomeningitis Virus, Lassa Virus, and the South American Hemorrhagic Fevers; Marburg and Ebola Virus Hemorrhagic Fevers

Phillip K. Peterson, M.D.

Professor of Medicine, University of Minnesota Medical School; Director, Infectious Diseases Division, Department of Medicine, Hennepin County Medical Center, Minneapolis, Minnesota Infections in the Elderly

William A. Petri, Jr., M.D., Ph.D.

Professor, Department of Internal Medicine, Division of Infectious Diseases, and Departments of Microbiology and Pathology, University of Virginia School of Medicine; Attending Physician and Associate Director of Clinical Microbiology, University of Virginia Hospital, Charlottesville, Virginia

Free-Living Amebas; Microbial Adherence

Peter Piot, M.D., Ph.D.

Executive Director, Joint United Nations Programme on HIV/AIDS, Geneva, Switzerland

Global Perspectives on Human Immunodeficiency Virus Infection and Acquired Immunodeficiency Syndrome

Philip A. Pizzo, M.D.

Thomas Morgan Rotch Professor and Chair, Department of Pediatrics, Harvard Medical School; Physician-in-Chief and Chair, Department of Medicine, Children's Hospital, Boston, Massachusetts

Empirical Therapy and Prevention of Infection in the Immunocompromised Host

Matthew Pollack, M.D.

Professor of Medicine, F. Edward Hébert School of Medicine, Uniformed Services University of the Health Sciences; Attending Staff Physician Internal Medicine, Infectious Diseases, National Naval Medical Center, Bethesda, Maryland Pseudomonas aeruginosa

Debra Poutsiaka, M.D., Ph.D.

Assistant Professor of Medicine, Tufts University School of Medicine; Assistant Physician, Division of Geographic Medicine and Infectious Diseases, Department of Medicine, New England Medical Center, Boston, Massachusetts

Babesia

Robert H. Purcell, M.D.

Head, Hepatitis Viruses Section, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland Hepatitis E Virus

Anastacio de Queiroz Sousa, M.D.

Professor of Medicine, Department of Tropical Medicine, Universidade Federal do Ceará, Fortaleza; Secretary of Health, Ceará, Brazil

Leishmania Species: Visceral (Kala-Azar), Cutaneous, and Mucosal Leishmaniasis

Ronald P. Rabinowitz, M.D.

Assistant Professor, Department of Medicine, Division of Infectious Diseases, University of Maryland School of Medicine, Baltimore, Maryland

Multiple Trauma

Didier Raoult

Rickettsia Unit, Bacteriology-Serology-Virology Laboratory, Groupe Hospitalier de la Timone; Director, National Rickettsia Reference Center, Marseilles, France

Rickettsia rickettsii and Other Spotted Fever Group Rickettsiae (Rocky Mountain Spotted Fever and Other Spotted Fevers)

Jonathan I. Ravdin, M.D.

Nesbitt Professor and Chairman, Department of Medicine, University of Minnesota Medical School-Minneapolis; Chief of Medicine, Fairview-University Medical Center, Minneapolis, Minnesota

Entamoeba histolytica (Amebiasis); Introduction to Protozoal Diseases

Thomas H. Rea, M.D.

Emeritus Professor of Medicine (Dermatology), University of Southern California, Attending Physician, Los Angeles County/USC Medical Center, Los Angeles, California

Mycobacterium leprae (Leprosy, Hansen's Disease)

Annette C. Reboli, M.D.

Associate Professor of Medicine, University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School at Camden; Hospital Epidemiologist, Cooper Hospital/University Medical Center, Camden, New Jersey Erysipelothrix rhusiopathiae

Richard C. Reichman, M.D.

Professor of Medicine and Microbiology and Immunology, University of Rochester School of Medicine and Dentistry; Head, Infectious Diseases Unit, Strong Memorial Hospital, Rochester, New York

Detection of Human Immunodeficiency Virus Infection; Papillomaviruses