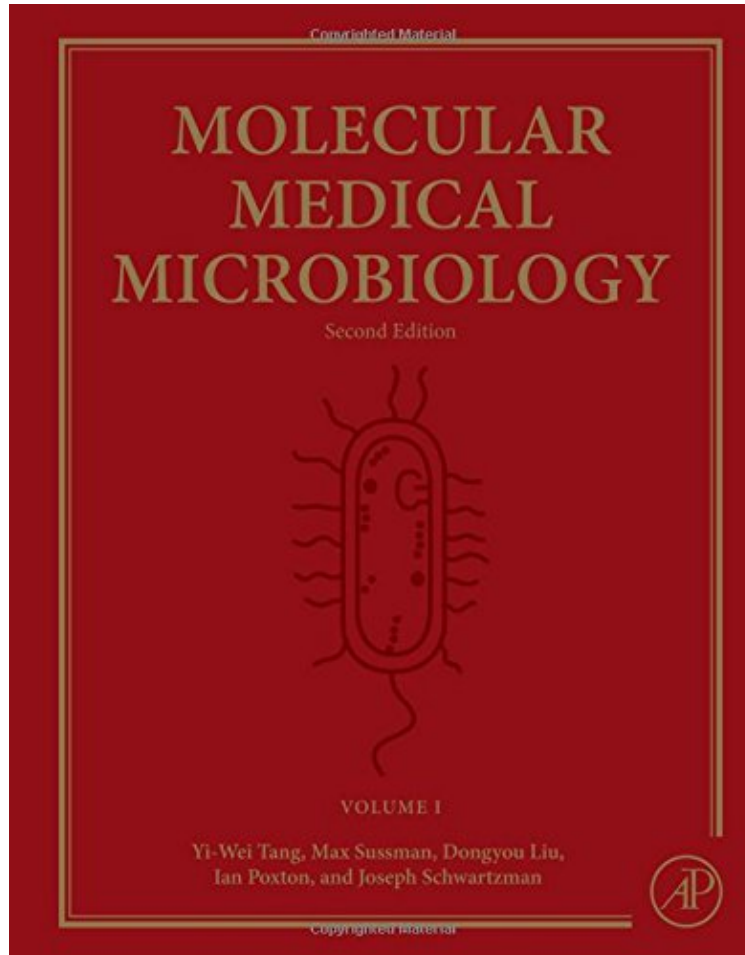


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## Molecular Medical Microbiology, Second Edition

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The molecular age has brought about dramatic changes in medical microbiology, and great leaps in our understanding of the mechanisms of infectious disease. Molecular Medical Microbiology is the first book to synthesise the many new developments in both molecular and clinical research in a single comprehensive resource. This timely and

authoritative three-volume work is an invaluable reference source of medical bacteriology. Comprising more than 100 chapters, organized into 17 major sections, the scope of this impressive work is wide-ranging. Written by experts in the field, chapters include cutting-edge information, and clinical overviews for each major bacterial group, in addition to the latest updates on vaccine development, molecular technology and diagnostic technology. Topics covered include bacterial structure, cell function, and genetics; mechanisms of pathogenesis and prevention; antibacterial agents; and infections ranging from gastrointestinal to urinary tract, central nervous system, respiratory tract, and more. The first comprehensive and accessible reference on molecular medical microbiology Full color presentation throughout In-depth discussion of individual pathogenic bacteria in a system-oriented approach Includes a clinical overview for each major bacterial group Presents the latest information on vaccine development, molecular technology, and diagnostic technology More than 100 chapters covering all major groups of bacteria Written by an international panel of authors who are experts in their respective disciplines

"This set is a wonderful addition to the field of medical microbiology. It contains an enormous wealth of useful information, and successfully depicts the most recent developments that have continued to exponentially expand the field of bacterial pathogenesis. This will be an extremely useful resource for medical students, clinicians, and academic scientists alike." -Thomas C. Zahrt for DOODY'S (2003) "...without question this work is destined to be successful as a teaching and information resource. ...Each chapter is well referenced should additional information be desired. ...Indeed, this work deserves a place in medical libraries because it is leading the way to where medical microbiology is going." Albert Ballows for DIAGNOSTIC MICROBIOLOGY AND INFECTIOUS DISEASE (2002) From the Back Cover The molecular age has brought about dramatic changes in medical microbiology, and great leaps in our understanding of the mechanisms of infectious disease. Molecular Medical Microbiology is the first book to synthesise the many new developments in both molecular and clinical research in a single comprehensive resource. This timely and authoritative 3-volume work is an invaluable reference source of medical bacteriology. Comprising over 100 chapters, organised into 17 major sections, the scope of this impressive work is wide-ranging. Written by experts in the field, chapters include cutting edge information, and clinical overviews for each major bacterial group, in addition to the latest updates on vaccine development, molecular technology and diagnostic technology. About the Author Dr. Yi-Wei Tang is currently the Chief of the Clinical Microbiology Service at the Memorial Sloan-Kettering Cancer Center in New York City, USA. He was a Lecturer and Clinical Fellow at the Mayo Clinic and Assistant Professor, Associate Professor to Professor at the Vanderbilt University School of Medicine. He has been engaged in medical and molecular microbiology translational researches, aimed at developing and evaluating new and advanced microbiological diagnostic testing procedures. Dr. Tang ranks among the top of the scientific field in clinical and molecular microbiology, as evidenced by his election as an Editor for the Journal of Clinical Microbiology, an Associate Editor for the Journal of Molecular Diagnostics, and a Fellow of the American Academy for Microbiology and of the Infectious Disease Society of America. Dr. Tang has been recognized for his extraordinary expertise in the molecular microbiology diagnosis and monitoring with 156 peer-reviewed articles and 68 book chapters in this field during the past 20 years. Dr. Tang is a chief editor of a Springer book Advanced Techniques in Diagnostic Microbiology and a co-editor of two ASM Press books Molecular Microbiology: Diagnostic Principle and Practice and Diagnostic Microbiology in Immunocompromised Host. Max Sussman is Professor Emeritus of Bacteriology, Faculty of Medical Sciences, University of Newcastle upon Tyne, Fellow of the Royal College of Pathologists and Fellow of the Society of Biology. He graduated at the University of Leeds, where he obtained his PhD. From 1958 he was at first Assistant Bacteriologist, Western Infirmary, Glasgow, Scotland and then a Member of the Scientific Staff of the Medical Research Council Experimental Virus Research Unit, Glasgow and a University of Glasgow Special Research Fellow. From 1964-1975 he was Lecturer and later Senior Lecturer in Medical Microbiology at the Welsh National School of Medicine, Cardiff and Honorary Microbiologist to the Cardiff Hospitals and Cardiff Regional Public Health Laboratory. From 1975-1989 he was Professor of Bacteriology and Head of the Department of Microbiology at the Medical School, University of Newcastle upon Tyne and Honorary Microbiologist, Newcastle Health Authority and Newcastle Regional Public Health Laboratory. He was Treasurer and then Vice President of the Institute of Biology 1985-86, Editor, Journal of Applied Microbiology 1983-92 and Foundation Editor, Letters in Applied Microbiology 1985-92. He was President, Society for Applied Microbiology 1994-97 and a General Editor of the 9th Edition of Topley Wilson's Microbiology and Microbial Infections (1998), which was awarded the 1998 Medical Society of London Award for major edited works. Max Sussman has published on urinary tract infection and inherited complement deficiencies and amongst other subjects more generally on various aspects of clinical microbiology. Dongyou Liu, PhD, undertook his veterinary science education at Hunan Agricultural University, China, and pursued postgraduate training at the University of Melbourne, Australia. Over the past two decades, he has worked at several research and clinical laboratories in Australia and the United States of America, with focuses on molecular characterization and virulence determination of microbial pathogens such as ovine footrot bacterium (*Dichelobacter nodosus*), dermatophyte fungi (*Trichophyton*, *Microsporum* and *Epidermophyton*) and listeriae (*Listeria* species) as well as security sensitive biological agents. He is the first author of 50 original research and review articles in various

international journals, the contributor of 122 book chapters, and the editor of recently released Handbook of *Listeria monocytogenes* (2008), Handbook of Nucleic Acid Purification (2009), Molecular Detection of Foodborne Pathogens (2009), Molecular Detection of Human Viral Pathogens (2010), Molecular Detection of Human Bacterial Pathogens (2011), Molecular Detection of Human Fungal Pathogens (2011), and Molecular Detection of Human Parasitic Pathogens (2012), all of which are published by CRC Press. Ian Poxton was until recently (Dec 2012) Professor of Microbial Infection and Immunity at the University of Edinburgh College of Medicine and Veterinary Medicine. He is now Professor Emeritus at the University of Edinburgh. His research interests include i) the pathogenesis, immune response, molecular epidemiology and diagnosis of *Clostridium difficile* infections; ii) pathogenesis and vaccine development of diseases caused by other *Clostridium* species, notably Equine Grass Sickness; and in the recent past iii) the role of endotoxin/ lipopolysaccharides in the host. He has served two terms (2005-2009) as Chair of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID) Study Group for *Clostridium difficile* and served as Editor-in-Chief of the Journal of Medical Microbiology (2002-2007) and was Editor-in-Chief of *Journal of Medical Microbiology* (1996-2002). He chaired the Society for Anaerobic Microbiology from 1999-2004. He was given a lifetime achievement award by the Anaerobe Society of the Americas in June 2012. He has published almost 200 papers, including over 100 on anaerobes with nearly 50 on *Clostridium difficile*. He has co-authored two text books and has contributed chapters to many more. Joseph Schwartzman MD, FAAM, FIDSA, is Professor of Pathology at the Geisel School of Medicine at Dartmouth. He is the Medical Director of the Diagnostic Microbiology Laboratory at the Dartmouth-Hitchcock Medical Center, and has a research interest in protozoan parasitology and pathogenic bacteriology.