BOOK REVIEWS

Molecular Bacteriology: Protocols and Clinical Applications Methods in Molecular Medicine, volume 15

This book aims to provide insight into molecular methods that may be useful in modern medical bacteriology. It consists of two main parts; the first contains chapters discussing the range of methods that are available, e.g., DNA amplification and pulsed-field gel electrophoresis. These chapters not only present an overview of such methods, but also discuss their application with examples. The second part of the book deals with the use of methods in detecting specific organisms, virulence factors, typing and mechanisms of antibiotic resistance. Identification of streptococci, detection of Corynebacterium diphtheriae toxin, typing salmonellae and detection and characterisation of β-lactamases are among topics covered. There are detailed and clearly written protocols for the methods described in each chapter. Useful hints and information are provided at the end of each chapter, so that investigators should in most cases be able to get the methods working using this book alone. Most of the methods described are based on molecular biology; however, some phenotypic methods are provided, e.g., iso-electric focusing of β-lactamases, or analysis of peptidoglycan precursors.

The book is authoritative, as its many contributors are all experts in their fields; their contributions have been well coordinated by the editors, resulting in a unified work. Judicious use of tables and diagrams illustrate the book. Figures show the perfection of results for which the readers should be striving. The book is sturdily bound in hardback to withstand the considerable use it deserves and will undoubtedly get. It represents very good value and I recommend that all laboratories interested in molecular diagnosis in bacteriology should buy a copy of it.

M. J. Gill

Urinary Tract Infections

This comprehensive review is a multi-author text with contributions from the UK, Europe, North America and Australia. Despite the numerous authors and individual styles, there is generally a consistency of style and approach throughout. A welcome feature of this book is the extensive bibliography at the end of each chapter and in particular the inclusion of many references going back 30 years or more. Although the order of chapters is not perhaps altogether logical (e.g., the first chapter deals with laboratory methods and the last considers the pharmacokinetics of antibacterial agents after treatment and prevention have been reviewed), the pathogenesis, epidemiology, clinical features, screening and investigation of urinary tract infection are all well covered. Strong features of the book are its detailed coverage of urinary tract infection at different ages in life, specific clinical areas such as the urethral syndrome and the investigation of urinary tract infection.

The highlights of the book for me are those sections covering diagnostic imaging, prostatic infection, urinary tract infection during childhood and catheter care. Common sense together with a comprehensive but rational review of the literature characterise these contributions. Inevitably, there are one or two minor quibbles. In many chapters, especially those covering clinical aspects, there is a section on epidemiology, investigations to localise infection and approaches to therapy, which are all very similar, and after a while are repetitive. It is surprising that there are not any colour plates in this book and, therefore, those illustrations covering pathological aspects of urinary tract infection are somewhat unsatisfactory. The strong North American presence amongst the list of contributors means that, inevitably, trimethoprim-sulphamethoxazole rather than trimethoprim alone figures prominently in the list of first line therapeutic options. However, giving the importance of urine specimens in the routine work of most microbiology laboratories and the extensive up-to-date coverage of the subject, this excellent book will be of interest to many, if not all microbiologists. It will also be of considerable interest to infectious disease physicians, urologists and genito-urinary physicians. Finally, it is well deserving of a place on most medical library bookshelves.

H. Humphreys

Clinical Tuberculosis, 2nd edition

This book provides an excellent review of tuberculosis at the close of the 20th century. One of the aims stated in the preface is to provide more than just a view of tuberculosis in the developed nations. It succeeds in this aim in the final section, which contains chapters written by authors practising in many areas of the developing world. These chapters make fascinating (and depressing) reading.

The main sections of the book cover history and epidemiology, laboratory diagnosis, pathology, clinical aspects, treatment, prevention, control and related mycobacterial disease. Various chapters deal with new laboratory techniques, including DNA fingerprinting and PCR methods for epidemiological studies and rapid diagnosis, although the amount of detail given in these chapters is variable. Serological tests for tuberculosis are also included. The chapter on immunopathophysiology is one of the clearest explanations on the pathology of tuberculosis I have read.

The clinical section covers the different forms of respiratory and extra-pulmonary tuberculosis, including a separate chapter dealing with tuberculosis in children. A chapter on the clinical pharmacology of tuberculosis drugs is followed by the use of different regimens to treat tuberculosis in different situations (smear positive, smear negative), including data about newer drugs such as fluoroquinolones and rifamycins. This inevitably leads on to a discussion of drug-resistant tuberculosis and an excellent chapter on surgical treatment.

The importance of HIV infection is stated in many chapters throughout the book, but specific chapters cover the...