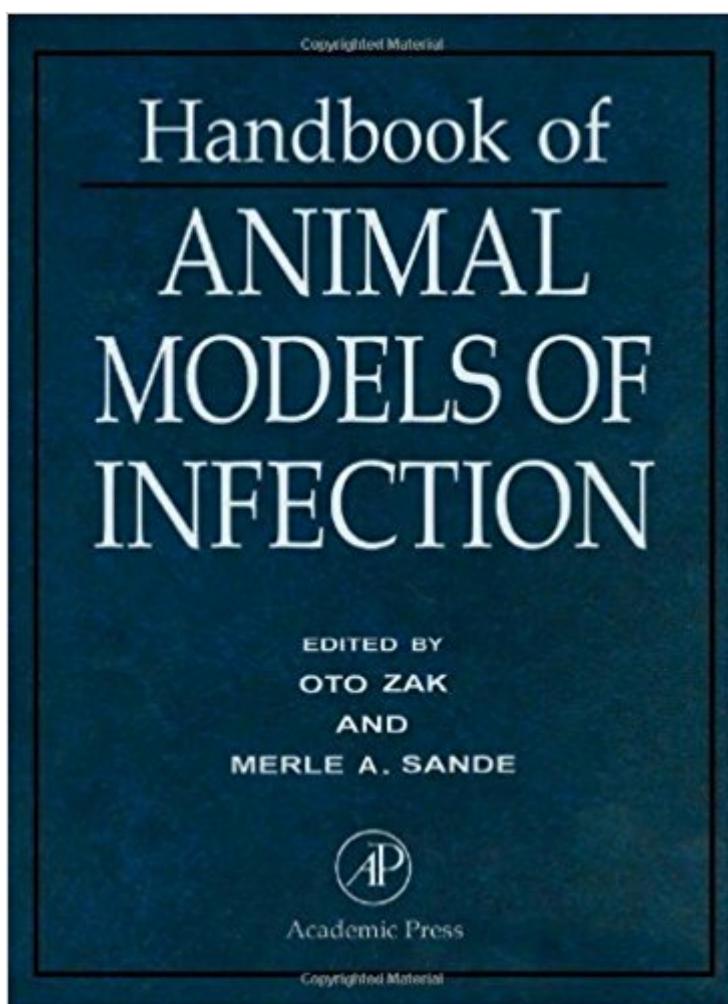


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Handbook Of Animal Models Of Infection: Experimental Models In Antimicrobial Chemotherapy



Synopsis

Handbook of Animal Models of Infection is a complete revision of a three-volume text that was published in 1986. It incorporates the major advances in the field during the past decade, in particular those concerning molecular biological procedures and new models that have been developed. It focuses on both methods and techniques, which makes it an essential and comprehensive reference as well as a benchtop manual. The Handbook will help investigators save time and effort in formulating an approach to test a new potential therapeutic agent or combination of agents for in vivo efficacy and to position the therapy for specific infections where it may have therapeutic promise. The book is divided into five sections; the first covering the general methodologies, followed by sections describing experimental bacterial, mycotic, parasitic, and viral infections. Discusses ethical and safety aspects in an introductory background section. Covers principles of animal care and current techniques appropriate for the use of animal models of infection. Details a wide range of animals including rodents, rabbits, cats, and primates. Provides hands-on descriptions of how to set up the model. Discusses the major advantages and limitations of each model. Ensures full coverage of bacterial, fungal, viral, and parasitic infections.

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Alexander Fleming discovered penicillin in 1929. Yet because Fleming failed to carry out a simple animal test, first introduced in 1911, the development of penicillin was delayed by 10 years. Nearly 60 years on there is a growing need for the new antimicrobial drugs, and evaluation in animal models is still an essential step prior to testing in humans. Fortunately, the chances of such an oversight occurring again are significantly reduced by this very worthwhile compendium, which updates a three-volume version of 13 years ago into a single volume work. This comprehensive book will be essential for those involved in the research and development of new antimicrobials. The first 123 pages consist of a very readable series of articles providing and introductory background to the subject. This ensures that the book will also be a valuable reference for those involved in scientific journalism and advocacy." --KEVIN O'DONNELL, Scottish Agricultural Science Agency, Edinburgh for MICROBIOLOGY TODAY

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