Antibiotic Resistance Protocols: Second Edition (Methods in Molecular Biology)

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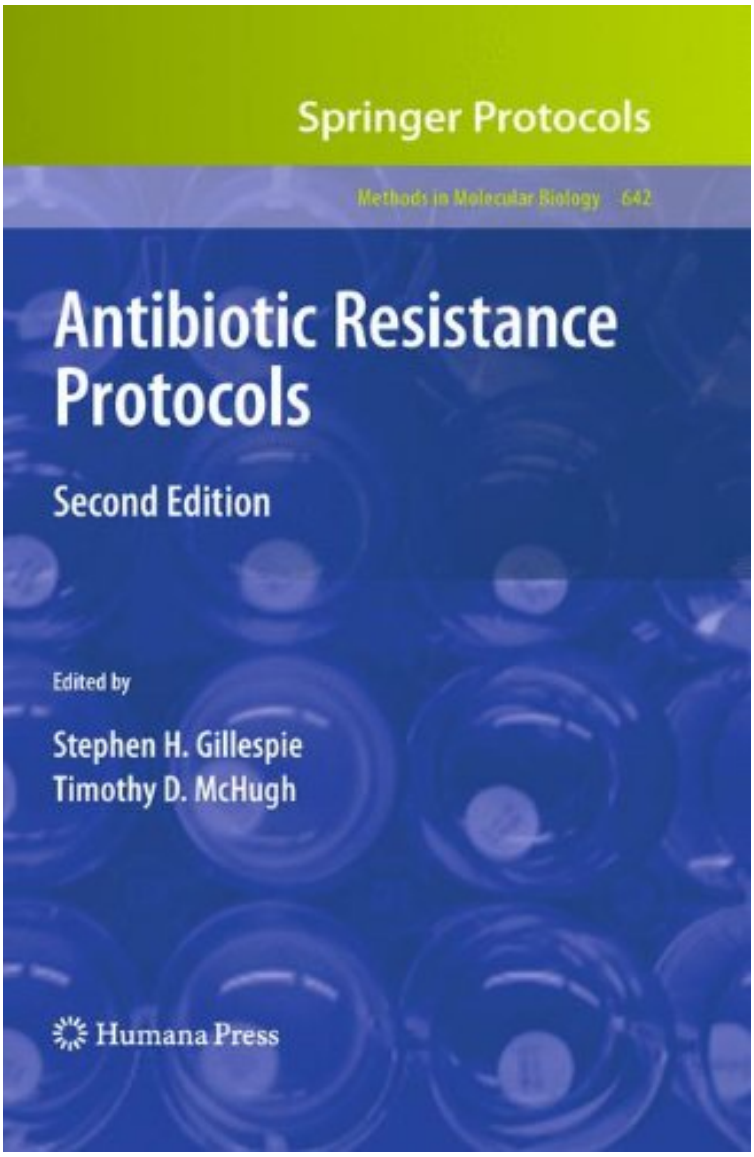

#6992305 in Books 2010-04-16Original language:EnglishPDF # 1 10.00 x .56 x 7.01l, 1.40 #File Name: 160327278X227 pages | File size: 34.Mb

From Humana Press : Antibiotic Resistance Protocols: Second Edition (Methods in Molecular Biology) before purchasing it in order to gage whether or not it would be worth my time, and all praised Antibiotic Resistance Protocols: Second Edition (Methods in Molecular Biology):

Since the publication of the popular first edition, genomic methods have become more accessible, allowing antibiotic researchers to probe not only the sequence of antibiotic resistance determinants but the mechanism whereby they are expressed and regulated. That, in concert with array technology and an understanding of the importance of biofilms, has greatly expanded antibiotic resistance knowledge. In order to reflect the growing field, Antibiotic Resistance Protocols, Second Edition fully updates and builds upon its first edition with contributions from leading researchers. Beginning with chapters on epidemiology and population genetics, the book continues with sections covering genomics and gene expressions, fitness mutation and physiology, and the detection of resistance. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and up-to-date, Antibiotic Resistance Protocols, Second Edition brings together examples of a diverse range of modern techniques applied in antibiotic research in order to best aid scientists in planning their own future research.

From the reviews:"...an excellent, well-produced book, full of protocols on a range of modern molecular techniques, applicable not only to research on antibiotics resistance, but to general microbiology....The articles are of a uniformly high standard, well illustrated and referenced, which act as logical easy to follow protocols. this book is a must for anyone involved in research on antibiotic resistance; equally all microbiologists who use modern molecular methods should consult it in the expectation of finding well-described established techniques and numerous cutting-edge developments." - MicroBiology TodayFrom the reviews of the second edition:This is a well produced book . The articles are of a uniformly high level, well illustrated and referenced, working with logical and easy to follow protocols. This book is excellent for anyone involved in research on antibiotic resistance, whether students, researchers or professionals in the field of microbiology who use modern molecular techniques. Readers can find answers to queries on a number of well-defined and established cutting-edge techniques. (Elsa Masae Mamizuka, Brazilian Journal of Pharmaceutical Sciences, Vol. 46 (4), October-December, 2010)This is the second edition of a protocol book that details the methods used to detect antibiotic resistance mechanisms in bacteria. This book is written for scientists working in the area of antibiotic development and bacterial resistance mechanisms. a sound book with good advice for investigators working in the field of antimicrobial development. It provides a good basis for the study of bacterial survival mechanisms and how bacteria adapt to different environments. (Rebecca T. Horvat, Doodys Book s, August, 2010)From the Back CoverSince the publication of the popular first edition, genomic methods have become more accessible, allowing antibiotic researchers to probe not only the sequence of antibiotic resistance determinants but the mechanism whereby they are expressed and regulated. That, in concert with array technology and an understanding of the importance of biofilms, has greatly expanded antibiotic resistance knowledge. In order to reflect the growing field, Antibiotic Resistance Protocols, Second Edition fully updates and builds upon its first edition with contributions from leading researchers. Beginning with chapters on epidemiology and population genetics, the book continues with sections covering genomics and gene expressions, fitness mutation and physiology, and the detection of resistance. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and up-to-date, Antibiotic Resistance Protocols, Second Edition brings together examples of a diverse range of modern techniques applied in antibiotic research in order to best aid scientists in planning their own future research.