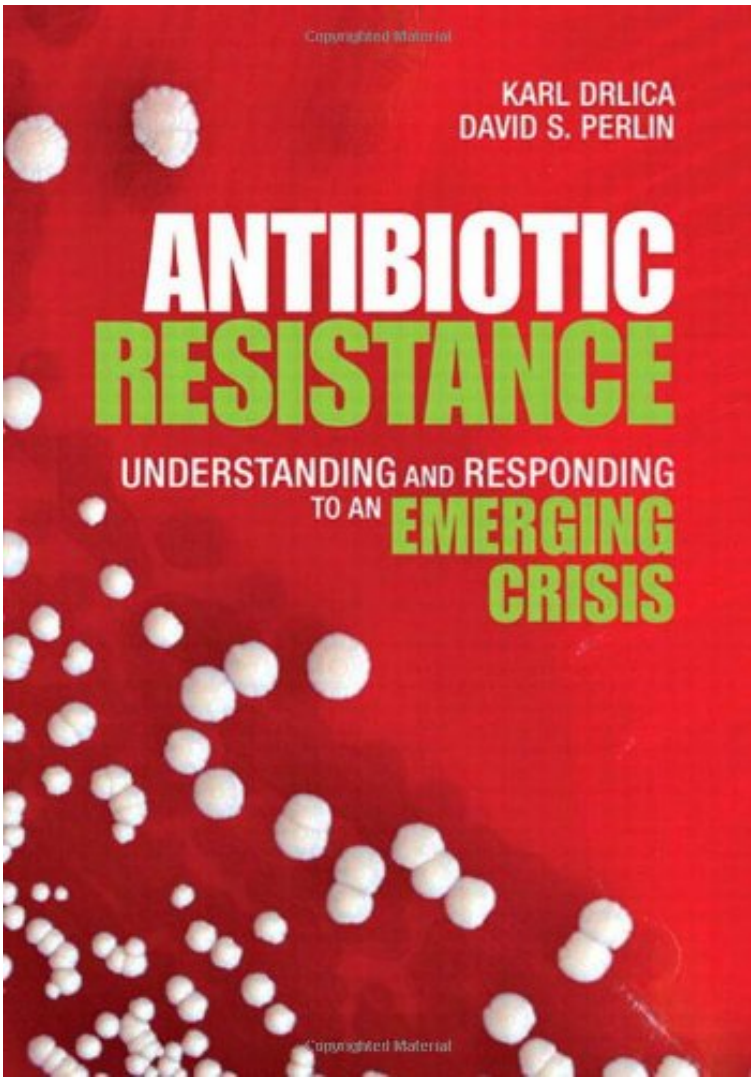
Antibiotic Resistance: Understanding and Responding to an Emerging Crisis (FT Press Science)

Karl S. Drlica, David S. Perlin



#1136947 in Books 2011-02-19Original language:EnglishPDF # 1 10.32 x .95 x 7.20l, 1.45 #File Name: 0131387731288 pages | File size: 32.Mb

Karl S. Drlica, David S. Perlin : Antibiotic Resistance: Understanding and Responding to an Emerging Crisis (FT Press Science) before purchasing it in order to gage whether or not it would be worth my time, and all praised Antibiotic Resistance: Understanding and Responding to an Emerging Crisis (FT Press Science):

1 of 1 people found the following review helpful. Great Introduction to a Timely and Complicated SubjectBy KevinInterested to know why using alcohol gel to clean your hands could make you more susceptible to more serious

infections? This book offers an excellent explaination of the phenomenon plus a huge amount of detail regarding the future of antibiotics.The book starts off slowly with a great introduction to the basics of how antibiotics work and why they fail -- each chapter progresses in both depth and complication, exploring the DNA issues behinds how bacteria are killed, and while the reading is dry -- let's be honest, the title is "Antibiotic Resistance" -- the info is presented in a concise and straight-forward manner.Criticism? The author focuses specifically on why antibiotics will all eventually fail, and while this is certainly on point with the subject, I would have hoped for even a small mention of novel antibiotic approaches. Also, towards the end he touches on viral epidemics and here it would have been appropriate to discuss some related vaccine development even superficially. Yes, I know it's about antibiotics and not vaccines, but it would have been nice addition.0 of 0 people found the following review helpful. Interesting information on a growing issueBy Ally SylumI'm interested in antibiotic resistance and the effects (both long and short term) on our bodies, the environment future generations. There is a lot of information here and I was pleased with the laymans intro to biology in the back, as it could help someone unfamiliar with biological processes understand better. One thing is sure, we must combat resistance now, before we have superbugs that are untreatable.0 of 0 people found the following review helpful. Three StarsBy Dheavyok

Authored by two leading investigators, this book presents a thorough and authoritative overview of this multifaceted field of science. Pathogenic bacteria have been evolving and spreading resistance to diverse classes of antibiotics. As a result, we risk losing our ability to control and treat infectious diseases. Understanding antibiotic resistance, therefore, is becoming increasingly essential for a broad audience of healthcare professionals, biomedical and public health researchers, students, and policymakers. The authors answer questions such as: What is resistance? How does it emerge? How do common human activities contribute to resistance? What can we do about it? How can we strengthen our first lines of defense against resistance? Are there better ways to discover new antibiotics? What unique issues are associated with MRSA and viral influenza? In addition to defining and evaluating one of the most important emerging threats to public health, the authors explain what can be done to minimize risks to public health, and to preserve and extend the effectiveness of existing and new antibiotics.

From the Back CoverThe emergence and spread of antibiotic resistance is a growing medical and public health emergency. Misuse and overuse of antibiotics is putting us at risk of losing our ability to cure infectious diseases. Karl Drlica and David S. Perlin give an authoritative and thorough explanation of all aspects of antibiotic resistance, from the basic science to the strategies that could minimize resistance problems and extend the life spans of existing antibiotic agents. Intended as the definitive book on a major biomedical issue, Antibiotic Resistance will be required reading for investigators and serious students in microbiology, infectious disease, pharmaceutics, and public health; physicians; and students in pharmacy, medicine, and veterinary medicine.About the Author Karl Drlica, Ph.D. is a Principal Investigator at the Public Health Research Institute and Professor of Microbiology Molecular Genetics at the UMDNJNew Jersey Medical School in Newark. His laboratory focuses on fluoroquinolone action and resistance with Mycobacteriun tuberculosis and other bacteria, including approaches for slowing the enrichment and amplification of resistant bacterial subpopulations. David S. Perlin, Ph.D. is Executive Director of the Public Health Research Institute and UMDNJ Regional Biocontainment Laboratory, as well as Professor of Microbiology Molecular Genetics at the New Jersey Medical School in Newark. He is also a Fellow of the New York Academy of Sciences. Dr. Perlins laboratory explores mechanisms of antifungal drug-resistance, rapid detection of drug resistant bloodstream pathogens in high-risk patients, and the application of small-animal models for the study of respiratory pathogens.