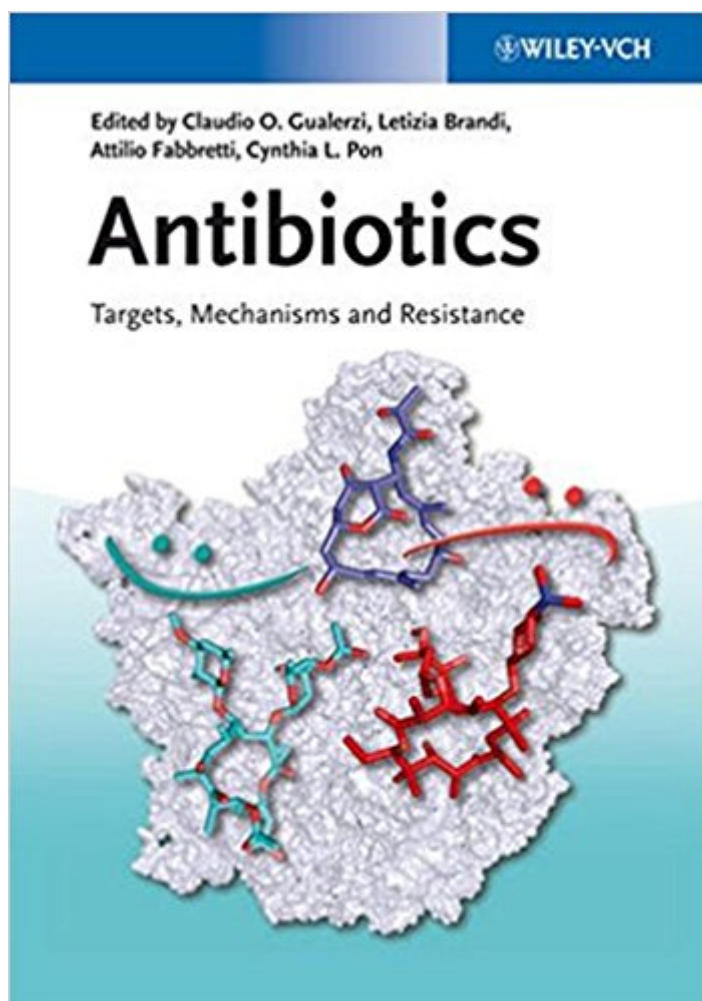


The book was found

Antibiotics: Targets, Mechanisms And Resistance



Synopsis

Most of the antibiotics now in use have been discovered more or less by chance, and their mechanisms of action have only been elucidated after their discovery. To meet the medical need for next-generation antibiotics, a more rational approach to antibiotic development is clearly needed. Opening with a general introduction about antimicrobial drugs, their targets and the problem of antibiotic resistance, this reference systematically covers currently known antibiotic classes, their molecular mechanisms and the targets on which they act. Novel targets such as cell signaling networks, riboswitches and bacterial chaperones are covered here, alongside the latest information on the molecular mechanisms of current blockbuster antibiotics. With its broad overview of current and future antibacterial drug development, this unique reference is essential reading for anyone involved in the development and therapeutic application of novel antibiotics.

Book Information

Hardcover: 576 pages

Publisher: Wiley-VCH; 1 edition (December 4, 2013)

Language: English

ISBN-10: 3527333053

ISBN-13: 978-3527333059

Product Dimensions: 6.9 x 1.3 x 9.9 inches

Shipping Weight: 3.1 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,355,445 in Books (See Top 100 in Books) #44 in Books > Medical Books > Pharmacology > Product Development #1802 in Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Pharmacology #19365 in Books > Medical Books > Basic Sciences

Customer Reviews

Millions of lives have been saved by antibiotics since the onset of their use in therapy. However, while the golden era of antibiotic discovery is now over the need for effective antibiotics is increased as the antibiotics pipelines have dwindled and life-threatening multi-resistant pathogenic strains have spread. Finding new anti-infective drugs has become a world-wide emergency and a more rational approach to antibiotic development is clearly needed to meet the medical need for next-generation antibiotics. Opening with a general introduction about antimicrobial drugs, their targets and the problem of antibiotic resistance, this reference systematically covers currently

known antibiotic classes, their molecular mechanisms and the targets on which they act. Novel targets such as cell signaling networks, riboswitches and bacterial chaperones are covered here, alongside the latest information on the molecular mechanisms of current blockbuster antibiotics. With its broad overview of current and future antibacterial drug development, this unique reference is essential reading for anyone involved in the development and therapeutic application of novel antibiotics.

Claudio Gualerzi is full professor of Molecular Biology at the University of Camerino (Italy) and member of the EMBO. Following his studies at the University of Rome-La Sapienza and a postdoctoral period at the University of Pennsylvania (USA), he served as research group leader at the Max-Planck-Institute for Molecular Genetics in Berlin (Germany). He was consultant for the Lepetit Research Center in Gerenzano (Italy) and has received numerous awards and honorary lectureships, including the research prize of the Alexander von Humboldt foundation for his work on ribosome function and the discovery of novel antibiotics. Attilio Fabbretti completed his doctoral studies at the University of Camerino (Italy) where he is now a research associate in the laboratory of Molecular Biology. He received the prize of the Italian Society for General Microbiology and Microbial Biotechnology for the best PhD thesis in 2007. Letizia Brandi received her doctoral degree from the University of Catania after performing her thesis work at the University of Camerino, Italy. She served a postdoctoral period at the University of Montana (Missoula, USA) and worked as a senior scientist at Biosearch Italia, spa and Vicuron Pharmaceuticals (Gerenzano, Italy), before joining the laboratory of Molecular Biology at the University of Camerino where she is now a research associate. Cynthia Pon received her PhD from Rutgers the State University (USA). Following post-doctoral periods at the University of Pennsylvania and Hunter College of the City University of New York, she worked at the Max-Planck-Institute for Molecular Genetics in Berlin (Germany) before becoming full professor of Molecular and Microbial Genetics at the University of Camerino (Italy). Her work has focused on the mechanism of protein synthesis, global responses in bacteria and action

[Download to continue reading...](#)

Antibiotics: Targets, Mechanisms and Resistance Herbal Antibiotics: 25 Best Herbal Remedies Way To Heal Yourself Faster (Herbal Antibiotics, Herbal Remedies,herbal antibiotics and antivirals)
Natural Antibiotics And Antivirals: The Complete Guide To Homemade Natural Herbal Remedies To Prevent And Cure Infections and Allergies (Home Remedies, Herbal Remedies, Organic Antibiotics)
HERBAL ANTIBIOTICS: 56 Homemade Holistic Herbal Remedies to Help Prevent, Treat, And Heal

Illnesses Naturally (Herbal Antibiotics, Herbal Remedies) Herbal Antibiotics: What BIG Pharma Doesn't Want You to Know - How to Pick and Use the 45 Most Powerful Herbal Antibiotics for Overcoming Any Ailment Natural Alternatives to Antibiotics â " Revised and Updated: How to treat infections without antibiotics Molecular Biology of Cancer: Mechanisms, Targets, and Therapeutics Antibiotics: Challenges, Mechanisms, Opportunities Antibiotics: Actions, Origins, Resistance Advanced Organic Chemistry: Part A: Structure and Mechanisms: Structure and Mechanisms Pt. A Ingenious Mechanisms for Designers and Inventors, 1930-67 (Volume 1) (Ingenious Mechanisms for Designers & Inventors) Percutaneous Absorption: Drugs--Cosmetics--Mechanisms--Methodology: Drugs--Cosmetics--Mechanisms--Methodology, Third Edition, (Drugs and the Pharmaceutical Sciences) Schaechter's Mechanisms of Microbial Disease (Mechanisms of Microbial Disease (Schaechter)) Support and Resistance: How to Use Support and Resistance to Limit Trading Losses and Identify Breakouts Insulin Resistance: Strategies to Overcome Insulin Resistance, Control Blood Sugar and Lose Weight Anti Inflammatory Diet: 4 Manuscripts: Insulin Resistance Diet, Plant Based Diet Cookbook, Insulin Resistance Cookbook, Healthy Eating (Anti Inflammatory Diet Cookbook Bundle) Insulin Resistance Diet: Your Step By Step Guide to Cure Diabetes & Prevent Weight Gain© Over 365+ Delicious Recipes & One Full Month Meal Plan (Insulin Resistance Cookbook, Balance Your Blood-Sugar) Guns Danger & Safety 2nd Edition: An Essential Guide In Firearm Ammunition, Loading, Shooting, Storage and Safety (Guns, Guns & Ammo, Ammunition, Hunting, ... Loading, Targets, Handguns, Gun Storage) Targets and Goals Human Targets: Schools, Police, and the Criminalization of Latino Youth

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)