

Antibiotics

Current Innovations and Future Trends

Edited by: Sergio Sánchez and Arnold L. Demain

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c. 480 pp

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The 'golden age' for antibiotic discovery, from 1940 until the early 1970s, ushered in a new era in human and animal health and the associated dramatic increase in human life expectancies. Indeed the possibility of eradicating infectious disease seemed feasible. However it soon became apparent that microorganisms wouldn't be defeated so easily. Their weapon: antibiotic resistance. Today microbial antibiotic resistance is rapidly exhausting our supply of effective compounds and making the possibility of a global public health disaster seems likely. The urgency of this situation has spawned a plethora of new multi-disciplinary research initiatives looking for novel antibiotics and other antimicrobial agents. In this timely book respected international experts summarize the most important research to provide a timely overview of the field. Essential reading!

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Antifungals

From Genomics to Resistance and the Development of Novel Agents

Edited by: **Alix T. Coste**

¹Institute of Microbiology, University Hospital Lausanne, 1011 Lausanne, Switzerland; Pathogène, L'UNAM Université d'Angers, and Laboratoire de Parasitologie-Mycologie, Centre Hospitalier Universitaire, Angers, France

c. 340 pp

Hardback: April 2015. ISBN 978-1-910190-01-2 £159, \$319

Ebook: March 2015. ISBN 978-1-910190-02-9 £159, \$319

Topics

• **Ch 1:** Molecular Mechanisms of Resistance of *Candida* spp. to Membrane-targeting Antifungals. • **Ch 2:** Point Mutations and Membrane-targeting Antifungals Resistance in *Aspergillus fumigatus* and other non-*Candida* Species. • **Ch 3:** Echinocandins: Resistance Mechanisms. • **Ch 4:** Biofilms and Antifungal Resistance. • **Ch 5:** Drug Combinations as a Strategy to Potentiate Existing Antifungal Agents. • **Ch 6:** Approaches to Detect Alternative Mechanisms of Resistance to Systemic Antifungals. • **Ch 7:** New Antifungal Discovery from Existing Chemical Compound Collections. • **Ch 8:** Exploring New Insights into Fungal Biology as Novel Antifungal Drug Targets. • **Ch 9:** Strategies for the Identification of the Mode-of-action of Antifungal Drug Candidates. • **Ch 10:** Genome Integrity: Mechanisms and Contribution to Antifungal Resistance. • **Ch 11:** Modulation of the Host Response to Control Invasive Fungal Infections. • **Ch 12:** Antifungal Vaccines and Immunotherapeutics. • **Ch 13:** Animal Models to Study Fungal Virulence and Antifungal Drugs.

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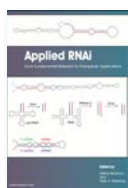
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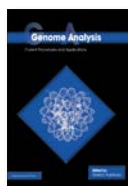
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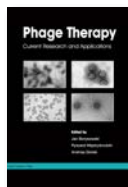
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