

Antibiotics Actions Origins Resistance

Antibiotics: Actions, origins, resistance, by C. Walsh
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mechanisms of resistance has plagued their
therapeutic use. Sulfonamide resistance was
originally reported in the late 1930s, and the same
mechanisms operate some 70 years later. A
compilation of the commonly used antibiotics, their
modes of action, and resistance mechanisms is shown
in Table 1. TABLE 1.

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Antibiotics Actions Origins Resistance

The flexible systems of biosynthesis and resistance are frequently linked sets of genes that are subject to horizontal transfer events causing extensive genomic alterations. The production of antibiotics and similar nonantibacterial compounds represents a major pathogenicity factor in many systems.

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DC 2003. 345 pp., hardcover \$ 99.95.—ISBN 1-55581-254-6 It is still less than 70 years since the first antibiotics, the sulfonamides, were used for the treatment of bacterial infections in ...

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Since the mid-1930s we have experienced two distinct phases of the antibiotic revolution: the first 30 years or so, when new antibiotics were discovered or prepared almost continuously, and the bacteria seemed under control; and the period since 1965 during which only one new class of antibacterials – the oxazolidinones – has been introduced into clinical practice, and bacterial resistance has become a serious problem.

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What is the origin of resistance to antibiotics? Resistant bacteria can survive antibiotic concentrations that would kill others. The main origin of antibiotic resistance, also called antimicrobial resistance, is their misuse. As underlined by the European Centre for Disease Prevention and Control (ECDC) they are three main types of misuses (ref 1):

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Section I (chapter 1, introduction) discusses the origins, mechanisms of action, modes of major resistance development and strategies for cycles of new and replacement antibiotics. Section II (chapters 2-6) describes the major antibiotic classes and how antibiotics block specific proteins acting in bacterial processes such as cell wall biosynthesis biosynthesis Subject Category: Natural Processes

Origins and Evolution of Antibiotic Resistance

Antibiotics: Actions, Origins, Resistance Hardcover – 16 Jun. 2003 by Christopher Walsh (Author)

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Antibiotic resistance: 1. What is the origin of resistance ...

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Enzymatic inactivation of antibiotics occurs with several of the natural product antibiotic classes but has not yet been observed as a major route of resistance development for the classes of synthetic antibacterials: the sulfamethoxazole-trimethoprim combination, the fluoroquinolones, or the oxazolidinones.

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The three major routes of resistance in antibiotic producers—destruction of the antibiotic, active extrusion of antibiotics by transmembrane pumps, and modification of target structures to antibiotic insensitivity—are seen to be the major mechanisms of resistance in bacterial pathogens.

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