

1. Record Nr.	UNINA9910829877703321
Titolo	Antibiotic resistance [[electronic resource]] : origins, evolution, selection, and spread
Pubbl/distr/stampa	Chichester ; ; New York, : Wiley, 1997
ISBN	1-282-45500-1 9786612455001 0-470-51535-X 0-470-51536-8
Descrizione fisica	1 online resource (262 p.)
Collana	Ciba Foundation symposium ; ; 207
Altri autori (Persone)	ChadwickDerek GoodeJamie
Disciplina	616.01 616.014 616/.01
Soggetti	Drug resistance in microorganisms
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Editors: Derek J. Chadwick (organizer) and Jamie Goode"--P. v.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	ANTIBIOTIC RESISTANCE: ORIGINS, EVOLUTION, SELECTION AND SPREAD; Contents; Participants; Antibiotic resistance: an ecological imbalance; Origins, acquisition and dissemination of antibiotic resistance determinants; The relationship between erythromycin consumption and resistance in Finland; The contribution of antibiotic use on the frequency of antibiotic resistance in hospitals; Impact of antibiotic use in animal feeding on resistance of bacterial pathogens in humans; The effect of monitoring of antibiotic use on decreasing antibiotic resistance in the hospital The antibiotic selective process: concentration-specific amplification of low-level resistant populationsThe within-host population dynamics of antibacterial chemotherapy: conditions for the evolution of resistance; The cost of antibiotic resistance-from the perspective of a bacterium; The evolution of b-lactamases; Molecular evolution of multiply= antibiotic-resistant staphylococci; Mobile gene cassettes and integrons: moving antibiotic resistance genes in Gram-negative bacteria; Genetic mobility and distribution of tetracycline resistance determinants

Epidemiological factors influencing the emergence of antimicrobial resistance Summary; Index of contributors; Subject index

Sommario/riassunto

Antibiotic Resistance: Origins, Evolution, Selection and Spread

Chairman: Stuart B. Levy 1997 Over the last 50 years, the rapid increase in the use of antibiotics, not only in people, but also in animal husbandry and agriculture, has delivered a selection unprecedented in the history of evolution. Consequently, society is facing one of its gravest public health problems—the emergence of infectious bacteria with resistance to many, and in some cases all, available antibiotics. This book brings together a multidisciplinary group of experts to discuss this problem. It begins by examining the orig
