

1. Record Nr.	UNINA9911018798003321
Titolo	Antibiotic resistance : origins, evolution, selection, and spread
Pubbl/distr/stampa	Chichester ; ; New York, : Wiley, 1997
ISBN	9786612455001 9781282455009 1282455001 9780470515358 047051535X 9780470515365 0470515368
Descrizione fisica	1 online resource (262 p.)
Collana	Ciba Foundation symposium ; ; 207
Altri autori (Persone)	ChadwickDerek GoodeJamie
Disciplina	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 resistanceSummary; 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

---