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Titolo	Antibiotic Resistance in the Environment : A Worldwide Overview / / edited by Célia M. Manaia, Erica Donner, Ivone Vaz-Moreira, Peiying Hong
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Collana	The Handbook of Environmental Chemistry, , 1616-864X ; ; 91
Disciplina	616.9041
Soggetti	Environmental chemistry Pharmacology Microbiology Pharmacovigilance Medical microbiology Environmental Chemistry Drug Safety and Pharmacovigilance Medical Microbiology Resistència als medicaments Efecte dels medicaments sobre els microorganismes Química ambiental Llibres electrònics
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Nota di contenuto	Antibiotic resistance in the environment: expert perspectives -- Antibiotic resistant bacteria in wildlife -- Genomic surveillance for One Health antimicrobial resistance: understanding human, animal, and environmental reservoirs and transmission -- Antibiotic resistance in pharmaceutical industry effluents and effluent-impacted environments -- Antibiotic resistance in municipal wastewater: A special focus on hospital effluents -- Control strategies to combat dissemination of antibiotic resistance in urban water systems -- Antibiotic resistance, sanitation and public health -- Antibiotic resistance and sanitation in

India: current situation and future perspectives -- Mitigating antimicrobial resistance risks when using reclaimed municipal wastewater for agriculture -- Antibiotic resistance in soil -- Religious Mass Gathering (Hajj) and Antimicrobial Resistance: From Challenges to Opportunities -- Human movement and transmission of anti-microbial resistant bacteria.

Sommario/riassunto

This book provides a multidisciplinary review of antibiotic resistance and unravels the complex and interrelated roles of environmental sources, including pharmaceutical industry effluents, hospital and domestic effluents, wildlife and drinking water. Antibiotic resistance is a global public health issue in which the interface between humans, animals and the environment is particularly relevant. The contrasts seen across different environmental compartments and world regions, which are due to climate, social and policy differences, mean that this problem needs to be analyzed from a multi-geographic and multi-cultural angle. Bringing together contributions from researchers on different continents with expertise in antibiotic resistance in a range of different environmental compartments, the book offers a detailed reflection on the paths that make antibiotic resistance a global threat, and the state-of- the-art in antibiotic resistance surveillance and risk assessment in complex environmental matrices.