

1. Record Nr.	UNINA9910555080403321
Titolo	One health : people, animals, and the environment // edited by Ronald M. Atlas and Stanley Maloy
Pubbl/distr/stampa	Washington, District of Columbia : , : ASM Press, , 2014 ©2014
ISBN	1-68367-346-8 1-68367-104-X 1-55581-843-9 1-55581-842-0
Descrizione fisica	1 online resource (xii, 318 pages) : illustrations
Disciplina	362.196959
Soggetti	Zoonoses Human-animal relationships Human ecology Communicable diseases in animals Public health Environmental health Animal health
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover; Half Title; Title Page; Copyright; Contents; Contributors; Preface; One Health: What Is It and Why Is It Important?; Chapter 1: Combating the Triple Threat: The Need for a One Health Approach; BACKGROUND; HUMAN DOMAIN; ANIMAL DOMAIN; GLOBAL FOOD SYSTEMS; ENVIRONMENTAL DOMAIN; CONSEQUENCES OF THIS UNPRECEDENTED CONVERGENCE; A CALL FOR A NEW MODEL TO CONFRONT THIS CHALLENGE; Citation; Chapter 2: The Value of the One Health Approach: Shifting from Emergency Response to Prevention of Zoonotic Disease Threats at Their Source; EMERGENCY RESPONSE TO NEWLY IDENTIFIED HUMAN INFECTIONS UNDERSTANDING THE DETERMINANTS OF EMERGENCE AND THEIR MITIGATION TURNING EVIDENCE INTO POLICY THROUGH A ONE

HEALTH APPROACH; REFERENCES; Chapter 3: The Human-Animal Interface; EVOLUTIONARY PATHOGEN HERITAGE OF THE HUMAN SPECIES; DOMESTICATION AND AGRICULTURE; FOOD PRODUCTION, POPULATION GROWTH, AND HUMAN URBANIZATION; HUMAN WORLDWIDE MIGRATION, COLONIZATION, AND TRADE; INDUSTRIALIZATION AND GLOBALIZATION; CONCLUDING REMARKS; REFERENCES; Chapter 4: Ecological Approaches to Studying Zoonoses; ECOLOGICAL APPROACHES TO STUDYING ZOOSES METHODS OF STUDYING WILDLIFE DISEASES: POTENTIAL APPLICATIONS FOR ZOOSES CONCLUDING REMARKS; REFERENCES; Chapter 5: Emerging Infectious Diseases of Wildlife and Species Conservation; INTRODUCTION; EMERGING INFECTIOUS DISEASES OF WILDLIFE; THE GEOGRAPHIC ORIGIN OF PATHOGENS; THE ROLE OF BIODIVERSITY; THE EFFECT OF LANDSCAPE STRUCTURE; THE EFFECT OF ALIEN SPECIES; THE COMBINED EFFECT-THE CASE OF LEPTOSPIRA; CONCLUDING REMARKS; REFERENCES; Zoonotic and Environmental Drivers of Emerging Infectious Diseases; EMERGENCE AND THE CHANGING CAST OF RNA VIRUSES; CONCLUDING REMARKS REFERENCES Chapter 7: Factors Impacting the Control of Rabies; INTRODUCTION; RHABDOVIRUSES; LYSSAVIRUS DIVERSITY; THE EMERGENCE AND EVOLUTION OF RABV; RABIES VIRUS: AN OPPORTUNIST PAR EXCELLENCE; PATHOGENICITY AND IMMUNE EVASION OR AMBIVALENCE AND THE BLOOD-BRAIN BARRIER; CONTROL OF DOG RABIES AND EMERGENCE OF WILDLIFE RABIES IN THE DEVELOPED WORLD; EMERGENCE OF DOG RABIES IN THE DEVELOPING WORLD AND THE BURDEN OF HUMAN RABIES; FACTORS IMPACTING THE CONTROL OF RABIES; ASPIRATIONS FOR A RABIES-FREE WORLD AND EVOLUTION OF NEW PARTNERSHIPS; THE FUTURE; CONCLUDING REMARKS Chapter 8: Emergence of Influenza Viruses and Crossing the Species Barrier GENOMIC FEATURES OF INFLUENZA A VIRUSES; RESERVOIRS FOR INFLUENZA A VIRUSES; INFLUENZA VIRUSES: CROSSING THE SPECIES BARRIER; HIGHLY PATHOGENIC H5N1 INFLUENZA-AN UNPRECEDENTED EVENT; CONTROL STRATEGIES; RISK ASSESSMENT AND RISK MANAGEMENT FOR INFLUENZA A: MORE THAN MEETS THE EYE; CONCLUDING REMARKS; REFERENCES; Chapter 9: One Health and Food-Borne Disease: Salmonella Transmission between Humans, Animals, and Plants; INTRODUCTION; IDENTIFICATION AND SURVEILLANCE; EVOLUTION OF HOST RANGE OF VARIANTS NONMAMMALIAN VECTORS FOR SALMONELLA

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### Sommario/riassunto

Emerging infectious diseases are often due to environmental disruption, which exposes microbes to a different niche that selects for new virulence traits and facilitates transmission between animals and humans. Thus, health of humans also depends upon health of animals and the environment - a concept called One Health. This book presents core concepts, compelling evidence, successful applications, and remaining challenges of One Health approaches to thwarting the threat of emerging infectious disease.

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