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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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