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| Nota di contenuto | VETERINARY MICROBIOLOGY; Contents; Contributors; Preface; Acknowledgments; About the Companion Website; PART I Introduction; 1 Pathogenicity and Virulence; Some Attributes of Host-Parasite Relationships; Criteria of Pathogenicity-Koch's Postulates; Elements in the Production of an Infectious Disease; Pathogenic Action; Direct Damage; Immune-Mediated Damage; Further Reading; 2 Immune Responses to Infectious Agents; Innate Immunity; Detection of Pathogen-Associated Molecular Patterns (PAMPs) by Sentinel Cells and the Effects on Immune System Stimulation<br>Anatomic Features, Physiological Processes, and Normal FloraAntimicrobial Peptides and Their Role in Innate Immunity; Effector Cells of the Innate Immune System; Adaptive Immunity; Humoral Immunity (Antibody Response); Effector Functions of Antibody; Cell-Mediated Immunity; Killing of Facultative Intracellular Bacteria by Activated Macrophages; Killing of Virus-Infected Cells by Cytotoxic T Cells; Effector Cells Can Use Antibody to Bind Target Cells; Evaluation of Immune Responses to Infectious Agents; Antibody-Based Serology; Cell-Mediated Immunity-Based Diagnostics; Summary; Further Reading 3 Laboratory DiagnosisBacteria and Fungi; Sample Collection; Transport |

of Samples; Demonstration of an Infectious Agent; Virus; General Considerations; Isolation of Virus from Clinical Specimens; Identification of Viruses or Viral Antigens in Clinical Specimens; Serologic Detection of Viruses; Further Reading; 4 Antimicrobial Chemotherapy; Classification of Antimicrobial Drugs; Mechanism of Action of Antimicrobial Drugs; Inhibition of Cell Wall Synthesis; Damage to Cell Membrane Function; Inhibition of Nucleic Acid Function; Inhibition of Protein Synthesis; Aminoglycosides Antimicrobial Susceptibility and Drug Dosage PredictionAntimicrobial Susceptibility Testing; Design of Drug Dosage and Pharmacodynamic Properties; Factors Affecting Tissue Drug Concentrations; Antifungal Chemotherapy; Antifungal Agents for Topical Use; Antifungal Agents for Systemic Use; Resistance to Antibacterial Drugs; Constitutive Resistance; Acquired Resistance; Other Genetic Elements Associated with Resistance.; Clinical Importance of Antimicrobial Drug Resistance; Public Health Aspects of Antimicrobial Resistancein Animal Pathogens; Control of Antimicrobial Resistance; 5 Vaccines IntroductionHumoral Immunity; Cell-Mediated Immunity; Generation of the Immune Response; DNA Vaccines; Adjuvants; Viral Vaccines; Live Attenuated Viral Vaccines; Inactivated Virus Vaccines; Toxoids, Bacterins, and Bacterial Vaccines; Toxoids; Bacterins; Bacterial Vaccines; Further Reading; PART II Bacteria and Fungi; 6 Family Enterobacteriaceae; Descriptive Features; Morphology and Staining; Cellular Structure and Composition; Cellular Products of Medical Interest; Growth Characteristics; Resistance; Variability; Laboratory Diagnosis; Morphology and Staining; Cultural Characteristics References

Sommario/riassunto

Veterinary Microbiology, Third Edition is a comprehensive reference on the bacterial, fungal, and viral pathogenic agents that cause animal disease. Now in full color with improved images throughout, the new edition has been thoroughly updated to reflect information from current research and diagnostic and clinical publications. Key changes include a review of microbial cell structure and function and increased emphasis on the key points of pathogenesis and host responses to infection.Organized into four sections, the Third Edition begins with an updated and expanded intr