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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	Foreword -- Preface -- Short peptide vaccine design and development: Promises and Challenges -- Human Papillomavirus -- Adaptation of fresh water mosquito vectors to salinity increases arboviral disease transmission risk in the context of anthropogenic environmental changes -- Epidemiology of Henipavirus -- Respiratory Syncytial Virus -- Surveillance for Hepatitis C -- Nipah virus emergence, transmission, and pathogenesis -- A decade of giant virus genomics -- Expanded Host Diversity and Global Distribution of Hantaviruses -- Family Bunyaviridae -- The Role of Viral Protein Phosphorylation During Filovirus Infection -- Viral Hemorrhagic Fevers of Animals Caused By DNA Viruses -- Viral Hemorrhagic Fevers of Animals Caused By Double-Stranded RNA Viruses -- Viral Hemorrhagic Fevers of Animals Caused By Positive-Stranded RNA Viruses -- Flaviviruses: Introduction to Dengue viruses -- Flavivirus Encephalitis -- West Nile Virus -- Zika Arbovirus -- Arenaviruses -- Viral Hemorrhagic Fevers of Animals Caused by Negative-Strand RNA Viruses -- XMRV: Emerging Human Infection or False Alarm -- Prion disease, HIV-1 infection, Alzheimer's disease -- Origin and Evolution of Human Immunodeficiency Viruses -- Global Protein sequence variation in HIV-1-B isolates derived from

human blood and brain -- Mutational immune escape in HIV-1 infection -- The Biology of Quiescent CD4 T cells, their role in HIV-1 infection and cocaine drug abuse -- Role of Macrophages in the Immunopathogenesis of HIV-1 Infection -- Brain Imaging in People with HIV -- Seasonal and Pandemic Influenza Surveillance and Disease Severity -- Ebolavirus Disease.

Sommario/riassunto

This book provides trajectories and illustrations of viruses that have catapulted into the global arena (linked to humans, animals, and vectors) due to human behaviors in recent years, as well as viruses that have already shown expansion among humans, animals, and vectors just a few decades ago. Topics in the current book include: vaccines environmental impact emerging virus transmission Filovirus (Ebola) hemorrhagic fevers flaviviruses Dengue evasion papillomavirus Hepatitis C Nipah Giant Hanta Bunya encephalitis West Nile Virus Zikavirus XMRV Henipavirus Respiratory Syncytial Virus influenza several aspects of HIV Paul Shapshak, PhD is a member of the Division of Infectious Diseases and International Health, Department of Internal Medicine, and the Department of Psychiatry and Behavioral Medicine, at USF Morsani School of Medicine. His research interests include molecular virology. John Sinnott, MD, is Chairman of the Department of Internal Medicine at the USF Morsani College of Medicine and holds the James Cullison Professorship in Infectious Diseases. Charurut Somboonwit, MD,FACP, is an Associate Professor in the Division of Infectious Diseases and International Medicine, Department of Internal Medicine, at USF Morsani School of Medicine. Her research interests include topics in general infectious diseases, and HIV and its long-term complications. Jens H. Kuhn, MD, PhD, PhD, MS, is a Principal at Tunnell Government Services, Inc. (Bethesda, Maryland, USA) tasked to fulfill the role of Virology Lead at the NIH/NIAID Integrated Research Facility at Fort Detrick in Frederick, Maryland, USA. His research interests include high-consequence (BSL-4) pathogen research, biodefense, and medical countermeasure development.