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Nota di contenuto	Forward -- Preface -- Multidisciplinary Approach to HIV/AIDS: Historical Perspective -- Global Issues in NeuroAIDS -- HIV-1 related Central Nervous System Diseases: Pathogenesis, Diagnosis, and Treatment -- An Indian Scenario -- HIV-1 Diversity in Brazil -- HIV and SIV Evolution -- Human Brain Imaging in HIV and NeuroAIDS -- HIV Neuroinvasion.-Neuropathology of HIV-1 Disease -- HIV-related Peripheral Nervous System Illness -- The Role of Early Life Programming in Vulnerability and Resilience in Relation to HIV -- Neurocognition in Viral Suppressed HIV-Infected Children -- Psychiatric Comorbidities in HIV-Infection -- Toward an Iterative Approach to Preventing HIV Risk Among Young MSM -- NeuroAIDS in Drug Abusers - Associations with Oral Manifestations -- Socioepidemiology of Injection Drug Users in Miami and HIV-1B Envelope (V1-V5) Genetic Diversity: A Preliminary Study -- The persistence of HIV associated neurocognitive disorder (HAND) in the era of combined antiretroviral therapy (cART) -- Antiretroviral Therapy - Brain Penetration -- Molecular Mechanisms of Cognitive Impairment in Patients with HIV Infection: Application of Bioinformatics and Data-Mining -- Genetic,

Epigenetic, and Transcriptomic Studies of NeuroAIDS -- NeuroAIDS: A Review of Gene Expression in Neurons, Astrocytes and Oligodendrocytes -- Neuronal Apoptotic Pathways in HIV Associated Dementia, Alzheimer's Disease, Parkinson's Disease, and Huntington's Disease -- Clinical Relevance of Humanized Mice -- HIV and Stroke -- Hepatitis C and HIV Neurological Implications -- Central Nervous System Reactivation of Chagas Disease in Immuno-compromised Patients with HIV/AIDS -- Central Nervous System Tuberculosis -- Neurosyphilis and HIV infection -- Orthopoxviruses and Human Disease -- Opportunistic Neurologic Infections in Patients Infected with Human Immunodeficiency Virus -- Zika Virus and HIV/AIDS -- Global Convergent Translational Science for Neuro-Involvement in Ebola Viral Disease: Lessons Learned from Neuro-AIDS -- Sequence Accuracy in Primary Databases: A case study on HIV-1B -- Amyloidogenic Pattern Prediction of HIV-1 Proteins -- On the Potential for Multiscale Oscillatory Behavior in HIV -- Short oligo-peptide T-cell epitopes in HIV-1/AIDS vaccine development: Current status, design, promises and challenges -- HIV-1 Envelope (ENV) GP160 trimer protein complex SPIKE as a recombinant macro-molecular assembly vaccine component candidate – Current opinion -- Gene Therapy Blueprints for NeuroAIDS -- Biostatistical Concerns in HIV Research.

Sommario/riassunto

This book on NeuroAIDS, a collection of chapters written by experts and specialists from around the world, provides a global perspective on HIV and NeuroAIDS in the field, clinic, and laboratory. The chapters address the comorbidity of HIV and other infectious agents, including Zika virus, Ebola, Chagas disease, TB and HCV. Also discussed are key topics, such as: · Molecular socioepidemiology · Global HIV and NeuroAIDS · Neuropathology · cART and blood-brain barrier penetration · HIV replicative oscillations · HIV and SIV evolution · Psychiatric comorbidities · Neurosyphilis · The examination of current and innovative models of translational research to translational effectiveness.
