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Nota di contenuto	CELLULAR ASPECTS OF HIV INFECTION; CONTENTS; Preface; Contributors; Part I MOLECULES; 1 HIV and Molecular Biology of the Virus-Host Interplay; 2 Telomere Length, CD28(-) T Cells, and HIV Disease Pathogenesis; 3 Immune Dysregulation and T-Cell Activation Antigens in HIV Infection; 4 Quantification of HIV/SIV Coreceptor Expression; Part II CELLS; 5 B Cells in the Line of Sight of HIV-1; 6 Cytotoxic T-Cell (CTL) Function in HIV Infection; 7 Analysis of the a/b T-Cell Receptor Repertoire in HIV Infection; 8 Gamma-Delta (gd) T Cells and HIV-1 Infection 9 Natural Killer Cells in HIV Infection and Role in the Pathogenesis of AIDS 10 Alveolar Macrophages; 11 Dendritic Cells Ferry HIV-1 from Periphery into Lymphoid Tissues; Part III PROCESSES; 12 Homeostasis

and Restoration of the Immune System in HAART-Treated HIV-Infected Patients: Implications of Apoptosis; 13 Mitochondria Functionality During HIV Infection; 14 Multiple Roles of Cytokines in HIV Infection, Replication, and Therapy; Part IV TECHNOLOGIES; 15 The Use of Peptide/MHC Tetramers to Visualize, Track, and Characterize Class I-Restricted Anti-HIV T-Cell Response
16 Tagging of HIV with Green Fluorescent Protein 17 Flow Cytometric Analysis of Cells from Persons with HIV-1 Disease by Enzymatic Amplification Staining; 18 Antigen-Specific Cytokine Responses in HIV Disease; Part V ORGANISMS; 19 Chimeric Models of SCID Mice Transplanted with Human Cells: The Hu-PBL-SCID Mouse and Its Use in AIDS Research; 20 Immune Reconstitution of the CD4 T-Cell Compartment in HIV Infection; 21 New Perspectives in Antiretroviral Therapy of HIV Infection; Index

Sommario/riassunto

Cellular Aspects of HIV Infection provides a highly readable, detailed overview of the state of the art in modern HIV research at the cellular level. This volume brings together renowned experts who have provided concise, synthetic treatments of the biology of HIV infection. It presents these descriptions and analyses with particular attention to the techniques of flow cytometry that have allowed us to not only observe the course of HIV infection and the immune system's response to it, but have also increased our ability to treat patients and understand their response to therapy. The bo
