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Nota di contenuto	I. IntroductionII. Design; III. Synthesis; IV. Antiviral activity; Acknowledgements; References; Chapter 4. Synthesis and antiviral evaluation of broad spectrum, orally active analogs of cidofovir and other acyclic nucleoside phosphonates; I. Introduction; II. Synthesis of hexadecyloxypropyl and related esters of cidofovir; III. Antiviral evaluation and spectrum of activity; IV. Structure activity relationships; V. Cellular metabolism; VI. Oral pharmacokinetics and tissue distribution; VII. Antiviral activity in animal models of viral diseases VIII. Alkoxyalkyl esters of (S)-HPMPA and other acyclic nucleoside phosphonatesIX. Conclusions; Acknowledgements; References; Chapter 5. CCR5 antagonistsCCR5 antagonists for the treatment ofHIV infection and AIDS; I. Introduction; II. Inhibition of HIV entry; III. CCR5 as a drug target; IV. The discovery of novel CCR5 antagonists; V. Molecular mechanisms; VI. Resistance to CCR5 antagonists in vitro and in the clinic; VII. Conclusions; References; Chapter 6. The medicinal chemistry of the DATADATA and DAPYDAPY series of HIV-1HIV-1 non-nucleoside reverse transcriptase inhibitors (NNRTIsNNRTIs)

	AbstractI. Introduction; II. The diaryltriazine (DATA) series; III. The diarylpyrimidine (DAPY) series; IV. Conclusion; Acknowledgements; References; Index
Sommario/riassunto	Regularly reviewing the ""state-of-the-art"" developments in the antiviral drug research field, this latest volume spans the conceptual design and chemical synthesis of new antiviral compounds. It discusses their structure-activity relationship, mechanism and targets of action, pharmacological behavior, antiviral activity spectrum, and therapeutic potential for clinical use.