This article was downloaded by:

On: 26 January 2011

Access details: Access Details: Free Access

Publisher Taylor & Francis

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-

41 Mortimer Street, London W1T 3JH, UK



Nucleosides, Nucleotides and Nucleic Acids

Publication details, including instructions for authors and subscription information: http://www.informaworld.com/smpp/title~content=t713597286

Subject Index to Volume 22

Online publication date: 24 November 2003

To cite this Article (2003) 'Subject Index to Volume 22', Nucleosides, Nucleotides and Nucleic Acids, 22: 12, 2217 - 2231 To link to this Article: DOI: 10.1081/NCN-120028010

URL: http://dx.doi.org/10.1081/NCN-120028010

PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: http://www.informaworld.com/terms-and-conditions-of-access.pdf

This article may be used for research, teaching and private study purposes. Any substantial or systematic reproduction, re-distribution, re-selling, loan or sub-licensing, systematic supply or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

NUCLEOSIDES, NUCLEOTIDES & NUCLEIC ACIDS Vol. 22, No. 12, pp. 2217–2231, 2003

Subject Index to Volume 22

A

Abasic Site Analogue of DNA, 1203 Acetamiprid, Interaction with Nucleic Acids, 1859

Acyclic, Achiral Nucleoside Analogue, 731

Acyclic Nucleoside Analogs with Chlorinated Imidazol[1,2-a]pyridine Bases, Synthesis, 1907

Acyclovir Phosphates, Synthesis and Antiherpetic Activity, 319

5'-O-Acylation Formation, Side Reaction in H-Phosphonate Oligonucleotide Synthesis, 1

4"-Acyl TSAO Derivatives, Lability of 5'-O-tert-Butyldimethylsilyl Group, 959

Adenine-Based Nucleoside Phosphonates, *Ribo*, *Xylo*, and *Arabino*-Configured, 1053

Adenine Nucleotide Complexes with Fe (II) Ions, Characterization and Elucidation of Coordination Requirements, 1757

Adenosine-2'(3')-deoxy-3'(2')triphosphates and Related Analogues, Ability to Replace ATP as Phosphate Donor for Deoxyribonucleoside Kinases, 1525 Adenosine-2'(3')-deoxy-3'(2')triphosphates, Replacement of ATP as Phosphate Donor for Deoxyribonucleoside Kinases, 153

Adenosine, 7- and 8-Methyl Etheno Derivatives, Syntheses and Fluorescence Properties, 85

Adenosine, Open Chain Carbocyclic Analogs as SAH Hydrolase Inhibitors, 1747

1,3-bis(Adenosine-5'-Ophosphorothioyl)glycerols, Stereochemical Analysis, 797

A₃ Adenosine Receptor Ligands, Synthesis, 923, 927

A_{2B} Adenosine Receptor Subtype Agonists, 809

S-Adenosylhomocysteine Hydrolase Inhibitor by Halo-Neplanocin A, 589

S-Adenosylhomocysteine Hydrolase Inhibitors, 919

S-Adenosyl-L-homocysteine Hydrolase, Inhibitors, 1747

S-Adenosyl-L-homocysteine Hydrolase, Synthesis of Inhibitors, 783

2'-O-Alkylated Guanosines, Synthesis Using Methylene-bis-(diisopropylsilyl)chloride, 583

2'-O-Alkyl-2,6-diaminopurine Ribosides, Synthesis, 1327

2217

DOI: 10.1081/NCN-120028010 Copyright © 2003 by Marcel Dekker, Inc. 1525-7770 (Print); 1532-2335 (Online) www.dekker.com



- 5-Alkynylpyrimidine PNA Units in PNA-DNA Chimeras, 1963
- 1-Aminocyclopropane-1-carboxylic Acids, Purine Substituted, 373
- 8-Amino-2'-deoxyadenosine, Synthesis, 193
- 5'-Amino-2',5'-dideoxy-2'fluoroarabinonucleosides in Oligonucleotide Chimeras, Synthesis and Properties, 1335
- 6-Amino-9-ethylpurine, 7- and 8-Methyl Etheno Derivatives, Synthesis and Fluorescence Properties, 85
- 2'-Amino-LNA, Synthesis, 1131
- 1,4-bis[1-Amino-5-oxo-4-substituted-(imidazolin-2-yl)]galacto-tetritols, 349
- 2-Aminopurine Methylenecyclopropane Analogues of Nucleosides, Synthesis and Biological Activity, 135, 813
- 8-Aminopurines in Oligonucleotides, Properties of Triple Helices Formed by, 645
- 1,4-Anhdro-2-deoxy-D-ribitol Derivatives from Thymidine, Synthesis, 1304
- Anti-telomerase 2-5A Antisense Compound RBI 011, Synthesis, 1733
- 2-α-L-Arabinopyranosyl-1,2,4triazines, Synthesis, 1805
- 4'C-Aryl-Branched Acyclic Nucleoside, Synthesis, 1781
- 3-Aryl-5-benzyl 1,2,4-triazin-6(1H)/ ones or Thiones, N-Galactosides, Aryl-β-C-LNA Monomers, 1317
- Aryldiazomethane Derivatives as Reagents for Site Specific Labeling of Nucleic Acids at Phosphate, 1371
- 5-Azacytosine Nucleosides, Synthesis and Anti-cancer Activity, 2161
- 5-Azacytidine Nucleosides with a Rigid Sugar Moiety, Synthesis, 915
- 4'-Aza-2',3'-Dideoxynucleosides, Synthesis, 743

- Azidoadenine and 6-Azidopurines, β-D-Pentofuranonucleoside Derivatives, Synthesis and Biological Evaluation, 605
- 2-(3-Azido- and 3-Amino-3-deoxyβ-D-ribofuranosyl)thiazole-4carboxamide, Synthesis, 2039
- 3'-Azido-3'-deoxy-5'-*O*isonicotinoylthymidine, 1789
- AZT Boranophosphate Conjugated with Tyrosine, Synthesis, 699
- AZT Conjugates of Steroid Acids, Synthesis, Anti-HIV, and Cytotoxic Activity, 2049
- AZT 5'-Phosphonates, 981

B

- Base-Labile Protecting Groups for 5'-Hydroxy Function in Solid-Phase Oligonucleotide Synthesis, 1011
- Benzothiazole Nucleosides, Synthesis, 2061
- Benzoxazole Nucleosides, Synthesis,
- 2'-O-Benzyladenosine, Synthesis, 145
- 2'-O-Benzylation of Purine Ribonucleosides, 779
- Benzylpronucleotides of d4T, Substituted Cyclic and Acyclic Relative to Their Hydrolytic Stability and Antiviral Activity, 791
- Bicyclic Nucleoside Analogues, Metabolic and Pharmacological Characteristics, 995
- Bicyclic Nucleoside Inhibitors of Varicella-Zoster Virus: 5'-Chloro and 3'-Chloro Derivatives, 931
- Bicyclic Nucleoside Derivatives Restricted in S-Type Conformations,
- Bicyclic Nucleoside Inhibitors of Varicella-Zoster Virus, 935
- Bicyclic Nucleosides Bearing an Unsaturated Side-Chain, Synthesis, 817



- Bicyclo[3.1.0]hexane Nucleosides, 547 Bicyclo[3.1.0]-hex-2-enyl Template in Locked Analog of Carbovir, 2077
- Biotin Phosphoramidites with Super-log Tethering Arms, 1439
- 6-(4-Biphenylyl)-3,9-dihydro-9-oxo-5*H*-imidazo[1,2-*a*]purine Analogs of Acyclovir and Ganciclovir, Synthesis and Fluorescent Properties, 911
- Bisacylphosphite Formation, Side Reaction in H-Phosphonate Oligonucleotide Synthesis, 1
- α-P-Borano-containing Deoxynucleoside Triphosphates, Selectivity for HIV-1 Reverse Transcriptases Reverse DNA Polymerases, 275
- (α-P-Borano)-2',3'-dideoxycytidine 5'-Triphosphate, Incorporation into DNA, 1651
- Boranophosphate Oligonucleotide, RNase H Activation, 1151
- 1'-C-Branched N,O-Nucleosides, Synthesis, 739
- 4'-Branched Oligonucleotides, Hybridization Properties, 1057
- (*E*)-5-(2-Bromovinyl)-1'-deoxyuridine, Diamino Analog, Synthesis and Properties, 1939
- trans-L/D-2-(tert-Butoxycarbonyl-aminomethyl)-4-(thymin-1-yl)
 Pyrrolidin-1-yl Acetic Acid,
 Synthesis, 1285

C

- Carbocyclic Analogs of Adenosine, Open Chain, as SAH Hydrolase Inhibitors, 1747
- Carbocyclic Analogues of MECA and NECA, Synthesis, 759
- Carbocyclic Analogues of Thymidine, Synthesis, 683
- Carbocyclic 1-[4-(Hydroxymethyl)-cyclopent-2-enyl]-1,2,4-triazole-3-carboxamide, Synthesis, 437

- 5'-Nor Carbocyclic Ribavirin, Synthesis, 1995
- Carbocyclic Thymidine Triphosphate, Substrate for Reverse Transcriptase, 405
- Carbohyrate-Oligonucleotide Conjugates, Synthesis, 1427
- Carbovir, Locked Analog, Synthesis and Conformational Analysis, 2077
- 5-Carboxy-2'-deoxyuridine, Synthesis, 1073
- Catalytic DNA and RNA for Targeting MDR1 mRNA, 1521
- 6-Chloropurine 3'-*O*-Benzoylriboside, 2'-*O*-Benzylation, 779
- Combinatorial Methods for Optimization of Antiviral Prodrug Properties, 837
- Conformationally Locked Nucleosides, 547
- Conjugate DNA Enzymes, Properties, 1491
- 4'-C-Cyano Purine Nucleosides, Synthesis and Anti-HIV Activity, 887
- Cyclic Phosphonates, 617
- Cyclic Uridine Diphosphate Glucose, 663
- Cyclohexenyl Nucleosides, Synthesis and Biological Evaluation, 845
- Cyclonucleoside Lesions, Recognition by the *Lactococcus lactis* FPG Protein, 1563
- Cyclopentane Amide DNA Analogue, Synthesis, 1207
- D-Cyclopent-2-enone, Synthesis, 771 *cyclo*Sal-d4TMPs, 7-Substituted, 825
- cycloSal Nucleotides, Non-inhibition of Acetylcholinesterase, 841
- cycloSaligenyl Pronucleotides of 5-Iodo and 5-Trifluoromethyl-1- (2-deoxy-β-D-ribofuranosyl)-2,4- difluorobenzene, Synthesis and Evaluation, 2121
- cycloSaligenyl-Tiazofurin Monophosphate, Synthesis and Biological Evaluation, 869

- Cyclosulfamide, 671
- Cytidine Deaminase, Human Catalytic Mechanism, 1539
- Cytidine Deaminase, Human Intersubunit Interactions, 1535
- Cytidine 5'-Diphosphate, 2'-Deuterio and 3'-Deuterio, Synthesis, 1657
- Cytidine Nucleosides, Protected, 1321

D

- D4T and Carbovir Analogues, 547
- 3-Deazaadenine Analogues, Chlorinated, Synthesis, 2133
- Deazaadenosine Derivatives, Synthesis and Inhibition of Animal Viruses.
- 7-Deaza-2'-deoxyguanosine, 7-Aminoalkyn-1-yl), in Oligonucleotides, 1231
- 7-Deaza-2'-deoxyxanthosine, Synthesis and Properties Halogenated, 1239
- d4TMP Delivery from 7-Substituted cycloSal-d4TMPs, 825
- Deoxyadenosine, 8-Amino, Synthesis,
- Deoxyadenosine Derivatives, Synthesis and Inhibition of Animal Viruses, 877
- 2'-Deoxycytidine Analogs, 5-Methoxymethyl, Synthesis, Conformation, and Antiviral activity, 223
- Deoxycytidine Kinase, Human Recombinant, 175
- Deoxycytidine Kinase, Hydrodynamic and Spectroscopic Studies of Substrate Binding, 175
- 3'-Deoxycytidine Phosphorylation, 687
- 2'-Deoxycytidine Protected, Commercial-Scale Synthesis, 1321
- 2'-Deoxy-β-L-cytidine Prodrug, 1003
- 2'-Deoxy-2',3"-difluoro- α and β -Dribofuranosyl Oligonucleotides,

- Synthesis and Physicochemical Properties, 1251
- 1-(2-Deoxy-β-D-erythropentofuranosyl)imidazole-4hydrazide, Synthesis and Recognition by DNA polymerases, 1665
- 2'-Deoxy-2-fluoroadenosine from 2-Fluoroadenine, 1899
- 9-(2-Deoxy-2-fluoro-β-Darabinofuranosyl)guanine, Synthesis, 1339
- 2'-Deoxyguanosine Bearing a C8-Arylamine Modification, as Oligonucleotide Building Blocks,
- Deoxynucleoside Triphosphates, with an α-P-Borano Group, 275
- 2'-Deoxynucleosides from 5-Substituted-4-hydroxy-6(1H)pyrimidinones, Synthesis, 99
- 2'-Deoxypseudoisocytidine, Synthesis, 1919
- 3'-Deoxy-3'-[4-(pyrimidin-1-yl)methyl-1,2,3-triazol-1-yl]thymidine, Synthesis, 1985
- Deoxyribonucleoside Kinases, 153
- 2-Deoxy-β-D-ribose 1-Phosphate, Synthesis and NMR, 1685
- 2'-Deoxy-6-thioinosine, Synthesis of Oligonucleotides Containing, 635
- 2'-Deoxyuridine, 4-O-methyl-5formylmethyl, Synthesis, 71
- 2'-Deoxycytidine, 5-Nitro and 5-Amino Derivatives, Synthesis and Biological Evaluation, 2013
- N^7 -(2'-Deoxy- β -D-erythropentofuranosyl)isoguanine, in Oligonucleotides, 1235
- 3-Deoxy-β-D-ribofuranosyl Purines, Synthesis and Biological Properties, 751
- Deoxyribonolactone, Fluorinated Analogues, Synthesis, 1093
- 2'-Deoxy-2'-C-trifluoromethyl β-D-Ribonucleoside Analogues,



- Synthesis and Antiviral Evaluations, 857
- (*E*)-3′,5′-Diamino-5-(2-bromovinyl)-2′,3′,5′-trideoxyuridine, Synthesis and Antiviral Activity, 833
- Diazirine Photoactive Nucleoside, 715 2',3'-Didehydro-2',3'
 - dideoxynucleosides, 2'- and 3'-Substituted Analogues, Synthesis, 767
- 2',3'-Dideoxycytidine, 5-Nitro and 5-Amino Derivatives, Synthesis and Biological Evaluation, 2013
- 2',3'-Dideoxy-2',3'-dehydronucleosides Synthesis Using 2,2-Difluoro-1,3dimethylimidazolidine, 667
- 2',3'-Dideoxy-3'-fluoroadenosine, Synthesis and HIV and HBV Activity, 1953
- 2',3'-Dideoxy-2'-fluoro-3'-*C*-hydroxymethyl-β-D-arabinofuranosyl Pyrimidine Nucleosides, Synthesis and Antiviral Evaluation, 891
- 2',3'-Dideoxy-2'-fluoro-3'thioarabinothymidine and Its 3'-Phosphoramidite Derivative, Synthesis, 1343
- 2',3'-Dideoxy-3'-fluoro-2-thiothymidine, Synthesis and Anti-HIV Activity of 5'-O-Ester Prodrugs, 804
- 2',3'-Dideoxy-3'-fluorothymidine, Thiated Analogues Phosphorylated and Phosphonylated derivatives, 973
- 2',3'-Dideoxyinosine, Synthesis of New Homo and Heterodimers, 829
- Dideoxynucleotides, Negatively Charged, Dye Labeled, 1471
- 2',3'-Dideoxyuridine, 5-Nitro and 5-Amino Derivatives, Synthesis and Biological Evaluation, 2013
- Diethyldithiocarbonate Disulfide, in Solid Phase Synthesis of Phosphorothioate Oligonucleotides, 461

- 2,2-Difluoro-1,3-dimethylimidazoline as a Dehydrating Agent for 2',3'-dideoxy-2'-3'-didehydronucleosides, 667
- 1,3-Dihydrobenzo[c]furan Analogue of d4T and Its SATE Pronucleotide, Synthesis, Stability, and Biological Evaluation, 943
- 9-(Dihydroxycyclopent-4-enyl)adenines, Halogenated Synthesis, 919
- 5'-O-(4,4'-Dimethoxytrityl)-N²isobutyryl-2'-O-(2-methoxyethyl)guanosine, Synthesis, 1327
- Dimethylthiuram Disulfide as Thiolation Reagent in Automated Oligonucleotide Synthesis, 629
- Dinucleoside Arylphosphonates with Metal Complexing Properties, Synthesis, 1459
- Dinucleoside Boranophosphates, Synthesis, 1171
- Dinucleoside Monophosphates Containing AZT and 1-Methyladenosine or 7-Methylguanosine, 853
- Dinucleoside *H*-Phosphonate Diesters, Oxidative Coupling with Bifunctional Nucleophiles, 1467
- Dinucleoside *H*-Phosphonates, Stability, 1387
- Dinucleoside *H*-Phosphonothioate Diesters, Oxidative Coupling with Bifunctional Nucleophiles, 1467
- Dinucleoside Polyphosphate NAD Analogs as Potential NMN Adenylyltransferase Inhibitors, Synthesis and Biological Evaluation, 865
- Dinucleoside Tri-, Tetra-, and Pentaphosphates, 691
- Dinucleotides, Conformationally Restricted, 1139
- DNA-Arrays, 1479
- DNA Chips, Labeling of Nucleic Acids During Cleavage for Detection, 649

- DNA-Chips, Photolithographic Synthesis by Photosensitization, 1395 DNA Conjugates as Novel Functional
 - Oligonucleotides, 1359
- DNA Conjugates, Synthesis, 1451 DNA Conjugates, Synthesis of an
- Asymmetrically Substituted Aza Crown Ether as Metal and Amino Acid Binding Site, 1039
- DNA Double and Triple Helices, Stabilization, 1267
- DNA Duplexes, Endcaps for Stabilizing, 1635
- DNA Duplexes, Parallel Biochemical Significance, 1549
- DNA Lesions, Enzymatic Process, using MALDI-TOF Mass Spectrometry, 1583
- DNA-Like Duplex Without Hydrogen Bonds, 1183
- DNA, Permanganate Reactions of, 1835
- DNA-PNA Chimerase, Synthesis and DNA Binding Properties, 1089
- DNA Polymerase (HHV-6), Expressed in an In Vitro Transcription/ Translation Assay, 999
- DNA Probes Based on DNAfluorophore Conjugates, 1399
- DNA G-Quadruplex, Effect of Putrescine and PEG on a Structural Transition, 1591
- DNA Triple Helix, Structural Studies, 1517
- Doped Natural Phosphate as a Catalyst in Nucleoside Synthesis, 679

\mathbf{E}

Energy Transfer, with Modified DNAs, 1219

Ethenoadenosine Derivatives, 85 Ethenoadenosine, Synthesis of an Oligonucleotide Analogue, 1135 2'-O,4'-D-Ethylene-bridged Nucleic

Acid, 1619

4'-C-Ethynyl Purine Nucleosides, Synthesis and Anti-HIV Activity,

F

9-Fluorenemethyl H-Phosphonoselenoate, Reagent for Transferring an H-Phosphonoselenoate Group, 1463

Fluorescence Nucleosides, 85 Fluorinated Peptide Nucleic Acid, 1191

- 2-Fluoroadenine, Conversion to 2'-Deoxy-2-fluoroadenosine, 1899
- 2'-Fluoro Analogues of Cl-IB-MECA, Synthesis, 927
- 3'-Fluoro Analogues of Cl-IB-MECA, Synthesis, 923
- [1'-Fluoro-2',3'-bis-(hydroxymethyl)cyclopropylmethyl]purines, Synthesis, 955
- 3'-α-Fluoro-2',3'-dideoxyadenosine, Synthesis, 711
- (Z)-(1-Fluoro-2-hydroxymethylcyclopropylmethyl)purines, Synthesis, 659
- 6-Fluoromethylpurines and Related Nucleosides, Synthesis, 747
- 2'-Fluoronucleotides in Spiegelmers, 1035
- 2'-Fluoro-4'-thio-2',3'-unsaturated Nucleosides, Synthesis and Biological Evaluation, 611
- Formamidopyrymidine-DNA Glycosylase, Escherichia coli, Cross-linking, 1505
- FRET Terminators, Synthesis and Energy Transfer Efficiency, 1595
- Functional Genomics,

Oligonucleotide-based RNA-knock Down Technologies, 641

- Furano Pyrimidine Nucleosides, 2',3'-dideoxy-3'-fluoro and 2'-deoxyxylo Derivatives, 935
- Furopyrimidine Nucleosides 5'-Chloro and 3'-Chloro, Synthesis, 931

G

- 2-β-Galactosyl-1,2,4-triazines, 6-Substituted, Synthesis and Reactions, 21
- Gene Targeting Mediated by Triple Helix Forming Oligonucleotides Containing 2'-O-Hydroxyethyl Residues, 1927
- 2-(β-D-Glycopyranosylthio) Pyridines, Synthesis, 1737
- 4-Guanidino-2-pyrimidinone Nucleobases, Synthesis and Hybridization Properties, 1085
- Guanine Nucleosides, Oxidation to 4-Amidinocarbamoyl-5hydroxyimidazoles by Dimethyldioxirane, 1355
- Guanofosfocin, Synthetic Studies, 727
- Guanosine Cyclonucleosides and Their Analogs, Rearrangement Reactions, 735

Η

- Halo-neplanocin A, Synthesis and Biological Evaluation, 589
- Heterodimers as HIV-1 Reverse Transcriptase Inhibitors, Synthesis, 873
- Hexitol Nucleic Acids, Methylated, 1227
- HIV-1 Reverse Transcriptase Inhibitors, Conformational Properties, 283
- Homopyrimidine 2',5'-Linked Xylose Nucleic Acid, Synthesis and Binding Properties, 1175
- α-Hydroxybenzylphosphonate Modified Oligonucleotides, Synthesis and Properties, 1123
- 2'-O-Hydroxyethyl Residues in Triple Helix Forming Oligonucleotides, Mediation of Gene Targeting, 1927

- (*Z*)-(2,3-bis-Hydroxymethyl)methylenecyclopropane Analgoues, 265
- α-Hydroxyphosphonate Moiety in 5'-Nucleotide Analogues, 329
- α-Hydroxyphosphonate Oligonucleotides, 1061
- 2-Hydroxy-3-(purin-9-yl)propanoic Acids, Synthesis of Base Substituted, 2145
- 4-Hydroxyvaline, Synthesis of Thymine Derivatives, 675

I

- Imidazoline Acyclo *C*-Nucleosides, Double Headed, 349
- Imidazo[1,2-a]pyridine Bases,Chlorinated, in Acyclic NucleosideAnalogs, 1907
- Interaction Between Nucleic Acids and Acetamiprid, 1859
- 3'-O-P-C-(OH)-C4' Internucleotide Linkage, 329
- 5-Iodo-1-(2-deoxy-β-D-ribofuransoyl)-2,4-difluorobenzene, Cyclosaligenyl Pronucleotides, Synthesis and Evaluation, 2121
- Isodideoxyadenosine, Cyclopropyl and Related Analogs, 239
- (4*R*,5*R*)-4,5-*O*-Isopropylidene-cyclopent-2-enone, Synthesis, 771

L

- Labeling During Cleavage of Nucleic Acids for Their Detection on DNA Chips, 649
- 6-(Levulinyloxymethyl)-3-methoxy-2nitrobenzoyl as a Base-labile 5'-Hydroxy Protecting Group, 469
- 2-(Levulinyloxymethyl)-5-methoxy-4nitrobenzoyl as a Novel Base-Labile 5'-Hydroxy Group, 469
- 2',5'-Linked Tetraribonucleotide Loops, Structure, 1687



- Lipase-catalyzed Resolution, 547 β-C-LNA, Aryl, Monomers, 1317 xylo-LNA Adenine Nucleoside, Synthesis of a Base-Protected, 1163 LNA-DNA Chimerase, Nuclease Stability, 1041
- α-LNA (α-D-Configured Locked Nucleic Acid, 1143
- α-L-LNA Guanine Nucleoside, Synthesis of a Base-Protected, 1155
- LNA and α-L-LNA Hybridized to RNA, Structural Characterization, 1691
- LNA and α-L-LNA, Therapeutic Application, 601
- LNA Oligonucleotides for Antisense Knockdown of PKC-α, 1607
- LNA Oligonucleotides, Nuclease Stability, 1041
- LNA Synthesis, 1273
- Lodenosine, Industrial Process for Synthesis, 507

M

- Methanocarba Nucleosides, Synthesis and Conformational Preferences, 547
- 2'-O-(2-Methoxyethyl) Oligoribonucleotide Phosphorothioates, 1639
- Methoxymethyl-2'-deoxycytidine Analogs, Synthesis, Conformation, and Antiviral Activity, 223
- 1-Methyladenosine and AZT in Dinucleoside Monophates, 853
- 7-Methyladenosine and AZT in Dinucleoside Monophates, 853
- 1-Methyladenosine, Chemical Incorporation, 1113
- Methylene-bis-(diisopropylsilyl)chloride as 3',5'-Protecting Group, 583
- 2'-O,4'-C-Methylene Bridged Nucleic Acid, 1097
- Methylenecyclopropane Analogues of Nucleosides, 2-Aminopurine,

- Synthesis and Biological Activity, 813
- 2-Methyl-5-tert-butylthiophenol, Oligonucleotides Deprotecting Reagent, 453
- 2'-O-Methyl G-Clamp in Oligonucleotides, Synthesis and Inhibition of the HIV-1 Tat-TAR Interaction, 1259
- 2'-O,4'-C-Methylene Bridged Nucleic Acid, Triplex Formation with 1-Isoquinolone Base Analogue, 1571
- Methylenecyclopropane Analogs of Nucleosides, Efficacy Against Herpesvirus Replication In Vitro, 2105
- Methylenecyclopropane Analogues of Nucleosides, Synthesis and Biological Activity, 135
- 4-O-Methyl-5-formylmethyl-2'deoxyuridine, Synthesis, 71
- 7-Methylguanosine, Cation Stacking with Tryptophan, 1557
- 4'-C-Methyl-β-D-ribofuranosyl Purine and Pyrimidine Nucleosides, 707
- Microarrays Preparation, Hybridization, Readout and Data Analysis, Benchtop Instrumentation, 1721
- Modified DNAs with Two Different Fluorescent Probes, Synthesis, 1219
- C-5 Modified Nucleosides, 391
- 2'-Modified Oligonucleotides Containing Aldehyde or Ethylenediamine Groups, Synthesis, 1383
- 2'-Modified Oligonucleotides, 1,2-Diol and Hydrazide Phosphoramidites for Solid-Phase Synthesis and Chemoselective Ligation, 1375
- 2'-O Modified Oligonucleotides, Synthesis, 1447
- Mononucleoside SATE Glucosyl Phosphorothiolates, New Pronucleotides, 899
- Monoval-LdC, Efficient Prodrug of 2'-Deoxy-β-L-cytidine, 1003

- mRNA 5' Cap Analogues, Partial Molar Volumes, 1553
- mRNA 5'-Cap-Analogues, Synthesis, 691
- mRNA Dinucleotide Cap Analogues, Binding Studies with Eukaryotic Initiation Factor eIF4E, 1703
- mRNA 5' Cap Analogues, Influence of the Length of the Phosphate Chain on Their Interaction with Eukaryotic Initiation Factor 4E, 1707
- mRNA 5' Cap Analogues, Interaction with Yeast Eukaryotic Initiation Factor eIF4E, 1711

N

- Neplanocin A, Apio Analogue, Synthesis, 1473
- Nicotinamide Adenine Dinucleotide, Theoretical and Synthetic Model Studies, 1545
- NMN Adenylyltransfase Inhibitors, Dinucleoside Polyphosphate NAD Analogs, 865
- Non-Canonical Tandem Base Pairs in RNA Helices, Structures, 559
- Nucleic Acid Detection on DNA-Arrays, Universal Labeling Chemistry, 1647
- Nucleobase-Pairs, Covalent Analogues, 775
- Nucleoside Analogs as Topoisomerase I Inhibitors, 653
- Nucleoside Analogue, Acyclic and Achiral, Synthesis and Properties, 623
- Nucleoside Analogues for the Recognition of Pyrimidine-Purine Inversion Sites, 1199
- Nucleoside Analogues from 4-Thio-L-lyxofuranose, 1867
- Nucleoside Analog UV Light Sensor, 703
- Nucleoside Derivatives, Synthesis and Antitumor Activity, 1623

- Nucleoside *H*-Phosphonamidate of AZT, 895
- Nucleosides Bearing Pyrrolepolyamide, Synthesis and Binding to DNA, 1309
- Nucleoside Scaffolds, New Solid Supports Linking, 695
- Nucleosides, Methylenecyclopropane Analogs, Efficacy Against Herpesvirus Replication In Vitro, 2105
- Nucleosides, Regioselective Enzymatic Acylation, 1455
- Nucleoside-3'-triphosphate-*O*-esters, Chemoselective Activation, ³¹P NMR Studies, 1673
- Nucleoside Triphosphates, Inhibition of Vertebrate Telomerases, 1575
- Nucleoside Triphosphates, Modified, 1293
- Nucleotide Analogues as Potential Substrates for Thymidylate Kinase, 821
- Nucleotide-Based Template-Competitive HIV-1 Reverse Transcriptase Inhibitors, Conformational Properties, 283 Nucleic Acids, Polyamide, 109

0

- Olefinic Peptide Nucleic Acid, 1211
- Oligodeoxynucleotides Containing 3'-Deoxy-3'-C-methyleneuridine, Synthesis and Hybridization Properties, 1159
- Oligodeoxyribonucleotides, Sulfhydryl Groups, 1435
- Oligo(2'-*O*-Methylribonucleotides) Conjuates, 1179
- Oligonucleotide Analogues Containing Ornithine Backbone Modified with Nucleoalanines, Synthesis and Hybridization Properties, 1077

Copyright © 2003 by Marcel Dekker, Inc. All rights reserved

- Oligonucleotide-based RNA-knock Down Technologies in Functional Genomics, 641
- Oligonucleotide-binding Proteins of Human Squamous Carcinoma A431 Cells, 1715
- Oligonucleotide Chimerase Containing 5'-Amino-2',5'-dideoxy-2'fluoroarabinonucleosides, Synthesis and Properties, 1335
- Oligonucleotide Conjugates as Inhibitors of Human Telomerase, 1627
- Oligonucleotide-Peptide, PEG-Conjugated, synthesis, 1255
- Oligonucleotide Prodrugs with N-Acetyl Nucleobases, Synthesis, 1243
- Oligonucleotides and Derivatives as Gene-Specific Control Agents, 489
- Oligonucleotides, Antisense, 129
- Oligonucleotides Containing an Acridine Group Covalently Bonded to the Nucleotide, 1069
- Oligonucleotides Containing 8-Aminopurines, Properties of Triple Helices Formed by, 645
- Oligonucleotides Containing Chiral Phosphoramidite Monomers from (R)- and (S)-1,3-Butanediol, Synthesis and Binding Affinity, 2003
- Oligonucleotides Containing Disaccharide Nucleosides, Synthesis, Physicochemical, and Substrate Properties, 1117
- Oligonucleotides Containing 2'-Naphthylmethyl-2'-deoxytubercidin, for Stabilization of RNA Bulges, 1289
- Oligonucleotides Containing a Novel Nucleobase, Synthesis and Triplex Binding Properties, 1281
- Oligonucleotides, Control of Intracellular Delivery, by Conjugation with Signal Peptides, 1367
- Oligonucleotides, Method for Covalent Immobilization, 1495

- Oligonucleotides, Ru^{II}-Derivatized, Photoadduct Leading to Crosslinking, 1487
- Oligonucleotides, Free 5'-Thiol Modified, Synthesis, 1297
- Oligonucleotides, Gel Electrophoresis, Capillary HPLC/Mass Spectrometry, 1513
- α-Oligonucleotides, Imidazolethyl-Phosphoramidate, 1263
- Oligonucleotides Incorporating N^7 -(2'-Deoxy- β -D-erythropentofuranosyl)isoguanine, in Oligonucleotides, 1235
- Oligonucleotides Incorporation 7-(Aminoalkyn-1-yl)-7-deaza-2'deoxyguanosines, Duplex Stability and Phosphodiester Hydrolysis, 1231
- Oligonucleotides, Modified Directed Triple Helix Formation, 1277
- Oligonucleotides, Synthesis, 129
- Oligonucleotide Synthesis Using Automated Solid Phase Synthesizer, 629
- Oligonucleotide N3'→P5' Thiophosphoramidates as Telomerase Inhibitors, 577
- Oligonucleotides with a Perylene Unit Linked to a 2'-Deoxyribose Residue, Synthesis and Properties, 1223
- Oligonucleotides, xylo-Configured, Synthesis and Hybridization Studies, 1147
- Oligoribonucleotides with Functionalized Nucleobases as New Modifiers of Biopolymers, 1509
- 8-Oxo-purine Nucleosides, Glycosylation via Mitsunobu Reaction, 727

P

Pentofuranonucleoside Derivatives of 2-Azidoadenine and 6-Azidopurines, Synthesis and Biological Evaluation,

- β-D- and β-L-Pentofuranonucleoside Derivatives Bearing 5-Trifluoromethylcytosine as the Base, Synthesis and Antiviral Evaluation, 861
- Peptide Nucleic Acid, 1-Aminocylopentane-1-carboxylic Acid-Derived, 1351
- bis-Peptide Nucleic Acid, Circular, 1023Peptide Nucleic Acid, Nucleobase Modified, 1029
- Peptide Nucleic Acids and Peptides, Thiazolium and Pyridinium Derivatives, Synthesis and MS Analysis, 1301
- Peptide Nucleic Acids Derived from Azetidines, Conformationally Restricted Chiral, 1363
- Peptide Nucleic Acids, Inhibition of Gene Expression, 1615
- Peptide Nucleic Acids, Structural Pre-organization, 1045
- Peptide Nucleic Acid, Submonomer Synthesis, 1017
- Peptide-oligonucleotide Conjugate, Solid-Phase, 1379
- Peptide-oligonucleotide Conjugates, Synthesis, 1427
- Permanganate Oxidation Reactions of DNA, 1835
- (Phenylalkyl)phosphonates, Nonpolar, Inhibition of Hepatitis C Viral Gene Expression, 1631
- Phenylhydroxypropynyladenosine Derivatives, A_{2B} Adenosine Receptor Subtype Agonists, 809
- Phosphate, Doped Potassium Fluoride,
- Phosphonate Analogues of Oligoadenylates, by Oligomerization, 1049
- H-Phosphonate Approach to Oligonucleotide Synthesis, Side Reactions, 1
- Phosphonate Pyrrolidine-based Dinucleoside Monophosphate Analogues, Isosteric, 1065 H-Phosphonates, 617

- D4T 5'-Phosphonates, New Lipophilic Derivatives, 981
- H-Phosphonoselenoates, 617
- H-Phosphonthioates, 617
- Phosphono Peptide Nucleic Acids with a constrained Hydroxyproline-based Backbone, 593
- Phosphoramidite Monomers from (*R*)- and (*S*)-1,3-butanediol, Chiral, Synthesis of Modified Oligonucleotides Containing, 2003
- Phosphoramidites, Amino Linker and Spacer, 1407
- Phosphorodiamides as Prodrugs for Antiviral Nucleosides, 963
- Phosphorothioate DNA, Reaction Mechanism, Synthesis, 1431
- Phosphorothioate DNA, Synthesis, 1411
- Phosphorothioate Oligonucleotides, Solid Phase Synthesis Using Diethyldithiocarbonate Disulfide, 461
- Phosphorothioate Oligonucleotides, Synthesis, 1421
- Phosphorylated 3'-*O*-β-D-Ribofuranosyl-2'-deoxythymidine, Synthesis and Properties, 359
- Phthalidyl-Phosphonate Thymidine-Thymidine Dimer, Absolute P-Configuration, 1127
- Piperidinyl Peptide Nucleic Acids, Synthesis and DNA-Complementation Studies, 1105
- α-cycloPNA, 1351
- PNA, PIM-1 Oncogene Targeted Covalent Coupling with an Antennapedia Derived Peptide, 1611
- PNA-DNA Chimeras Containing 5-Alkynyl-pyrimidine PNA Units, 1963
- bis-PNA-Peptide Conjugates, Inhibition of Transcription, 535
- PNA-DNA Chimeras Forming Quadruplex Structures, 1681
- PNA-DNA Chimeras, Synthesis, Biophysical, and Biochemical Properties, 1215



- PNA. Inhibition of Exonuclease III.
- PNA-Monomer for Recognition of Thymine in Triple-Helix Structures,
- PNA, Suppression of Exonucleolytic Degradation of Double-Stranded DNA, 1603
- Polyamide Nucleic Acid, 109
- Polymorphism of Telomeric DNA, 203
- Prodrugs, 5'-O-esters of 2',3'-dideoxy-3'-fluoro-2-thiothymidine, Synthesis and Anti-HIV Activity, 804
- Protein-DNA Contacts Footprinting, 1587
- Pseudonucleosides Containing Chiral Cyclosulfamides as Agycone, 671
- Pseudorotational Analysis, 547
- Purine Derivatives of 1,2-Disubstituted Cyclohexane as Nucleoside Analogues, 787
- 4-(Purin-9-yl)-3-butenoic Acids, Synthesis of Base Substituted, 2145
- Purine Nucleoside Phosphorylase, Complex with Multisubstrate Analogue Inhibitor with 2,6-Diaminopurine Aglycone, Crystal Structure, 1699
- Purine Nucleoside Phosphorylases, Interactions with Ground State Analogues, 1695
- Purine Nucleoside Phosphorylase, Interactions with Multisubstrate Analogue Inhibitors, 1567
- Purine Nucleosides, 5'-O-Fluorosulfonylbenzoyl Esters, 1531
- Purine Nucleosides, 2-Functionalized,
- Purine Nucleosides, (Z)-(2,3-bis-Hydroxymethyl)methylenecyclopropane Analogues, 265
- Purine Nucleosides, Synthesis and Biological Activities, 115
- Purine Substituted 1-
 - Aminocyclopropane-1-carboxylic Acids, 373

- Purine Substituted 1-Amino-1hydroxymethylcyclopropanes, 373 Pyrazolo[3,4-d]pyrimidine Nucleic Acid, 573
- 1*H*-Pyrazolo[3,4-d]pyrimidine Nucleosides, Acyclic 4,6-Disubstituted, Synthesis and
- Biological Evaluation, 967 Pyridine Nucleosides, Synthesis, 2061
- Pyridylphosphonates, 617
- 2-Pyrimidinone Nucleoside, Fluorescent, 1499
- Pyrimidine Nucleosides Fused with 3',4'-Tetrahydrofuran Ring, Synthesis and Biological Evaluation, 719
- Pyrimidines, Direct Insertion of Alkynyl-Thio Functionality, 391
- Pyrrolidine PNA-DNA Chimeric Oligonucleotides with Extended Backbone, 1101
- Pyrrolidino-DNA, 1187

Q

- Quadruplex [d(TGGGT)]₄ Containing a Modified Thymine, ¹H-NMR Study, 1677
- Quadruplex DNA, Molecular Recognition, 1483

R

- Regiospecific One-Pot Phosphorylation 3'-Deoxycytidines,
- Resistance-Associated Genotypic Mutations to Nucleoside Analogs, In Vitro Study, 991
- Ribavirin Congeners Containing a Hexitol Moiety, Synthesis and Antiviral Evaluation, 849
- Ribavirin, 5'-Nor Carbocyclic, Synthesis, 1995



- 3'-*O*-β-D-Ribofuranosyl-2'-deoxy-thymidine, Phosphorylated, 359
- *O*-β-D-Ribofuranosyl-(1"-2')-guanosine and (Adenosine)-5"-phosphate, Synthesis and Conformational Properties, 1109
- Ribonucleosides-3',4',5',5"-²H₄ and 2',3',4',5',5"-²H₄, Large Scale Chemical Synthesis of the Precursors, 2093
- Ribonucleotide Reductase: Radical Chemistry and Mechanism of Action, 519
- Ribonucleotide Reductase Inhibition by Thionucleotides, 883
- D- and L-Ribosyl Benzimidazoles, Resistance of Human Cytomegalovirus as a Tool to Identify Potential Targets for Antiviral Drugs, 1725
- Ribozymes, Effect of Universal Fluorinated Nucleobases on Catalytic Activity, 1347
- Ring-closing Metathesis Reactions, 723
- RNA Fragments, Branched Hydrolytic Susceptibility by the Yeast Debranching Enzyme Relates to Branchpoint Sugar Stereochemistry, 1599
- RNA Helices, Non-canonical Tandem Base Pairs, Structures, 559
- RNA Oligonucleotides, Studies Using Linear Polyethylenimine, 1729
- RNA-Oligonucleotides, Synthesis, 1167
- RNA Tertiary Structure by Electron Paramagnetic Resonance Spectroscopy, 1661

\mathbf{S}

SATE (Aryl) Phosphotriester Series, Stability Studies and Physicochemical Parameters, 907

- SATE (Aryl) Phosphotriester Series, Synthesis and Biological Evaluation, 903
- SNP Genotyping by MALDI-TOF MS Using Photocleavable Oligonucleotides, 1579
- Solid-Phase Oligonucleotide Synthesis, Base-Labile Protecting Groups, 1011
- Spiegelmers Containing 2'-Fluoronucleotides, 1035
- 2'-Spiro Ribo- and Arabinonucleosides, Synthesis, 1313
- Stability in Aqueous Media and Experimental and Theoretical Ionization Constants, 1789
- Stereocontrolled Sugar-Modified Nucleosides, Synthesis of Diene and Enyne, 783
- Steroid Acids, AZT Conjugates with, Synthesis, Anti-HIV, and Cytotoxic Activity, 2049
- N-Substituted 1-Amino-2,3-dihydro-1*H*-imidazole-2-thione-*N*-nucleosides, Synthesis, 299
- N⁶-Substituted Adenosine Derivatives, Synthesis and Antimalarial Activity, 977
- 5-Substituted-4-hydroxy-6(1H)pyrimidinones, Synthesis of 2'-Deoxynucleosides from, 99
- 2'-O-Substituted Ribonucleoside Phosphoramidites, Solid-Supported Coupling, 1415
- 2'-O-Substituted Ribonucleosides, Synthesis, 1007
- N-Sulfonyl Derivatives of Nucleobases, Synthesis and Antitumor Activity, 1623
- Synthesis of Oligodeoxynucleotides Containing 2'-Deoxy-6-thioinosine, 635
- 4-Thio-L-lyxofuranose, Nucleoside Analogues from, 1867
- Thiouracils Linked via S and N-1 to the 5-Position of Methyl β-D-Ribofuranoside, Synthesis and Anti-HBV Activity, 2027



Copyright © 2003 by Marcel Dekker, Inc. All rights reserved

- Telomeric DNA. Structural Polymorphism, 203
- Thiazole-4-carboxamide, 2-(3-Azido and 3-amino-3-deoxy-β-Dribofuranosyl), Synthesis, 2039
- 4-Thiofuranoid Glycals, 763
- 8-Thioguanine Derivatives, Synthesis, 755
- 6-Thioguanosine Phosphoramidite, Synthesis, 1247
- 4'-Thionucleosides, 2'-Fluoro-2',3'unsaturated, Synthesis and Biological Activity, 611
- 4'-Thionucleosides, Synthesis from Glycals, 763
- Thionucleotides as Inhibitors of Ribonucleotide Reductase, 883
- Thymidine, 3'-Azido-3'-deoxy-5'-Oisonicotinoyl, Stability in Aqueous Media and Experimental and Theoretical Ionization Constants, 1789
- Thymidine Monophosphate Kinase Inhibitors, Mycobacterium tuberculosis, 801
- Thymidine Phosphorylase from PD-ECGF, Inhibitors Based on the Transition State of the Enzyme Reaction, 951
- Thymidine, Synthesis of 1,4-Anhydro-2-deoxy-p-ribitol Derivatives, 1305
- Thymidine, Synthesis of Carbocyclic Analogs, 683
- Thymidine Triphosphate Containing a 5'-Methylene Group, 405
- Thymine Derivatives of 4-Hydroxyvaline, Synthesis, 675
- Thymine-Modified Oligonucleotides, Synthesis, 1081
- 9-[ω-(Thymin-1-yl)alkyl]adenine, Stacking Conformation, 309
- Tiazofurin Pronucleotides, Synthesis and Biological Evaluation, 869
- Topoisomerase I Inhibition by Nucleoside Analogs, 653
- 3',5'-TpT, Synthesis of Serine/ Alanine, 63

- Transition Metal Ligands as Novel DNA-Base Substitutes, 1195
- 1,2,4-Triazines, $2-\alpha$ -L-Arabinopyranosyl, Synthesis,
- 1,2,4-Triazines, 6-Substituted 2-β-Galactosyl, Synthesis and Reactions, 21
- 1,2,4-Triazin-6(1H)-ones or Thiones, 3-Aryl-5-benzyl, Synthsis of N-Galactosides, 1825
- 1,2,4-Triazole-3-carboxamide, Carbocyclic 1-[4-(Hydroxymethyl)cyclopent-2-enyl], 437
- Triazole Nucleoside Derivatives, Synthesis, 419
- Triciribine, 2-Substituted Analogs, Synthesis and Antiviral Activity, 2171
- Tricyclic Nucleoside Derivatives Restricted in S-Type Conformations, 723
- 5-Trifluoromethyl-1-(2-deoxy-β-Dribofuranosyl)-2,4-difluorobenzene, Cyclosaligenyl Pronucleotides, Synthesis and Evaluation, 2121
- 3'-C-Trifluoromethyl β-D-Ribonucleosides Bearing the Five Naturally Occurring Nucleic Acid bases, Synthesis and Evaluation, 2195
- Triphosphate Bridge, Cleavage Promoted by Dinuclear Bicyclic Complexes with Metal Ions, 1391
- TSAO Derivatives, N-3 Substituted,
- TSAO, Synthesis of Aza Analogues, 939
- Tyrosinyl FRET Cassettes Terminators, Synthesis, 1443

U

Urinary Modified Nucleosides as Tumor Markers, 987



Universal Fluorinated Nucleobases, Effect on the Catalytic Activity of Ribozymes, 1347 Universal Support for Oligonucleotide Synthesis, Photocleavable, 1403

 \mathbf{W}

Wyosine Derivatives, 2-Substituted, 1669

Zidovudine, Analogs, Conformational Studies, 45

 \mathbf{X}

Xanthosine, Structural Properties of

the Neutral and Monoanionic

Forms, 249