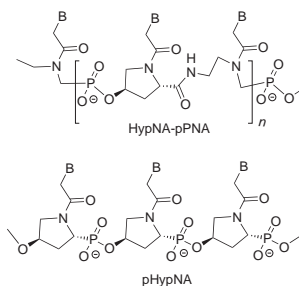


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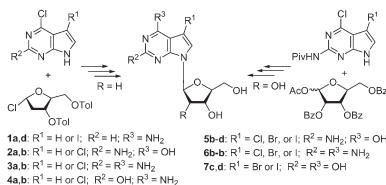
2006, 71, 929–955

**Hydroxyproline-Based DNA Mimics:  
A Review on Synthesis and Properties**Vladimir A. Efimov and  
Oksana G. Chakhmakhcheva*Collect. Czech. Chem. Commun.*

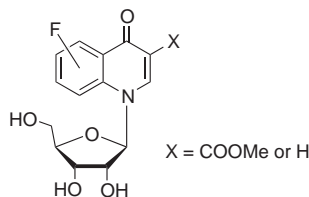
2006, 71, 956–977

**Pyrrolo[2,3-*d*]pyrimidine  $\beta$ -L-Nucleosides  
Containing 7-Deazaadenine,  
2-Amino-7-deazaadenine, 7-Deazaguanine,  
7-Deazaisoguanine, and 7-Deazaxanthine**

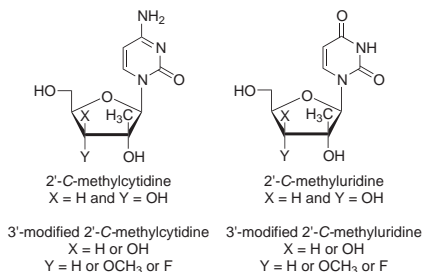
Frank Seela and Xiaohua Peng

*Collect. Czech. Chem. Commun.*

2006, 71, 978–990

**Microwave-Assisted Synthesis of  
Fluoroquinolones and Their  
Nucleosides as Inhibitors of  
HIV Integrase**Martina M. Adams, Jan W. Bats,  
Nadja V. Nikolaus, Myriam Witvrouw,  
Zeger Debyser and Joachim W. Engels*Collect. Czech. Chem. Commun.*

2006, 71, 991–1010

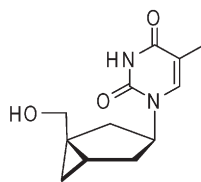
**Synthesis of 2'-*C*-Methylcytidine and  
2'-*C*-Methyluridine Derivatives Modified  
in the 3'-Position as Potential Antiviral  
Agents**Claire Pierra, Agnès Amador, Eric Badaroux,  
Richard Storer and Gilles Gosselin

*Collect. Czech. Chem. Commun.*

**2006, 71, 1011–1028**

**New and Efficient Synthesis of Racemic Cyclopent-3-en-1-yl Nucleoside Analogues and Their Derivatives**

Bastian Reichardt, Olaf R. Ludek and  
Chris Meier

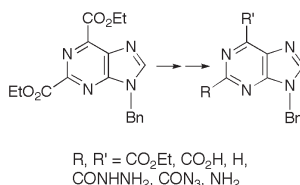


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**2006, 71, 1029–1041**

**Nucleic Acid Related Compounds. 136.  
Synthesis of 2-Amino- and  
2,6-Diaminopurine Derivatives  
via Inverse-Electron-Demand  
Diels–Alder Reactions**

Xiaoyu Lin and Morris J. Robins

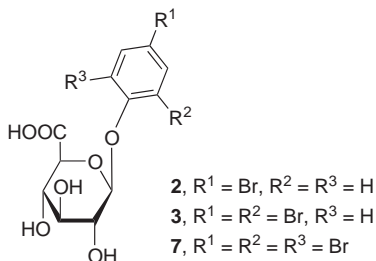


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**2006, 71, 1042–1050**

**Synthesis of Bromophenyl  
β-D-Glucuronides: Hydrophilic  
Precursors of Lipophilic Standards  
in the Analysis of Environmental  
Polychlorinated Biphenyls**

Manju Tandon, Piyush Kumar,  
Haiyan Xia, Lili Wang and Leonard I. Wiebe

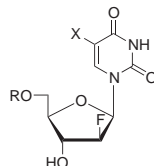


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**2006, 71, 1051–1062**

**1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-  
5-[<sup>36</sup>Cl]chlorouracil; Radiosynthesis and  
Preliminary Biodistribution Studies in an  
Experimental Murine Tumor Model**

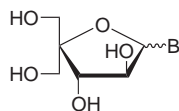
Leonard I. Wiebe, Edward E. Knaus,  
Takashi Iwashina, Hemant Misra and  
Yip W. Lee



*Collect. Czech. Chem. Commun.*

2006, 71, 1063–1087

**Synthesis and Biological Evaluation of Some 4'-C-(Hydroxymethyl)- $\alpha$ - and - $\beta$ -D-Arabinofuranosyl Pyrimidine and Adenine Nucleosides**



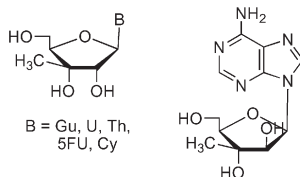
B = pyrimidine or purine  
 $\alpha$  or  $\beta$  anomers

Jean-François Griffon, Sue C. Shaddix,  
William B. Parker, Ashraf S. Al-Madhoun,  
Staffan Eriksson, John A. Montgomery and John A. Secrist III

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2006, 71, 1088–1098

**Purine and Pyrimidine Nucleoside Analogs of 3'-C-Methyladenosine as Antitumor Agents**



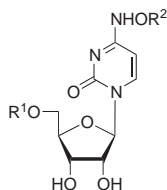
B = Gu, U, Th,  
5FU, Cy

Loredana Cappellacci, Palmarisa Franchetti,  
Riccardo Petrelli, Sara Riccioni, Patrizia Vita,  
Hiremagalur N. Jayaram and Mario Grifantini

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2006, 71, 1099–1106

**New N<sup>4</sup>-Hydroxycytidine Derivatives: Synthesis and Antiviral Activity**



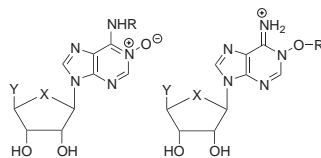
2: R<sup>1</sup> = H, R<sup>2</sup> = Acyl  
4: R<sup>1</sup> = phosphoryl, R<sup>2</sup> = H

Maksim A. Ivanov, Elena V. Antonova,  
Aleksy V. Maksimov, Lyudmila K. Pigusova,  
Evgenii F. Belanov and Lyudmila A. Aleksandrova

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2006, 71, 1107–1121

**Adenosine N<sup>1</sup>-Oxide Analogues as Inhibitors of Orthopox Virus Replication**



X = O, Y = CH<sub>2</sub>OH  
X = CH<sub>2</sub>, Y = OH

Anastasiya L. Khandzhinskaya, Elena A. Shirokova,  
Alexander V. Shipitsin, Inna L. Karpenko,  
Evgenii F. Belanov, Marina K. Kukhanova and  
Maksim V. Yasko

*Collect. Czech. Chem. Commun.*

**2006, 71, 1122–1129**

**The 3-Deaza and 7-Deaza Derivatives of  
5'-Amino-5'-deoxy-5'-noraristeromycin**

Minmin Yang, Tesfaye Serbessa and  
Stewart W. Schneller

