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Nota di contenuto	<p>About the Guest Editorsv -- Preface to "Nucleoside Modifications" .vii -- Yong Liang and Stanislaw F. Wnuk Modification of Purine and Pyrimidine Nucleosides by Direct C-H Bond Activation Reprinted from: <i>Molecules</i> 2015, 20(3), 4874-4901; doi: 10.3390/molecules20034874 http://www.mdpi.com/1420-3049/20/3/4874 .1 -- Kevin H. Shaughnessy Palladium-Catalyzed Modification of Unprotected Nucleosides, Nucleotides, and Oligonucleotides Reprinted from: <i>Molecules</i> 2015, 20(5), 9419-9454; doi: 10.3390/molecules20059419 http://www.mdpi.com/1420-3049/20/5/9419 .25 -- Oleg Golubev, Tuomas Lonnberg and Harri Lonnberg Formation of Mixed-Ligand Complexes of Pd²⁺ with Nucleoside 5'-Monophosphates and Some Metal-Ion-Binding Nucleoside Surrogates Reprinted from: <i>Molecules</i> 2014, 19(10), 16976-16986; doi: 10.3390/molecules191016976 http://www.mdpi.com/1420-3049/19/10/16976 .58 -- Sarah C. Zimmermann, Elizaveta O'Neill, Godwin U. Ebiloma, Lynsey J. M. Wallace, Harry P. De Koning and Katherine L. Seley-Radtke Design and Synthesis of a Series of Truncated Neplanocin Fleximers Reprinted from: <i>Molecules</i> 2014, 19(12), 21200-21214; doi: 10.3390/molecules191221200 http://www.mdpi.com/1420-3049/19/12/21200 .67 -- Yasufumi Fuchi, Hideto Obayashi and Shigeki Sasaki Development of New 1,3-Diazaphenoxazine Derivatives (ThioG-Grasp) to Covalently Capture 8-Thioguanosine Reprinted from: <i>Molecules</i> 2015, 20(1), 1078-1087; doi: 10.3390/molecules20011078 http://www.mdpi.com/1420-3049/20/1/1078 .79 -- Akkaladevi Venkatesham, Dhuldeo Kachare, Guy Schepers, Jef Rozenski, Mathy</p>

Froeyen and Arthur Van Aerschot Hybridisation Potential of 1',3'-Di-O-methylaltropyranoside Nucleic Acids Reprinted from: *Molecules* 2015, 20(3), 4020-4041; doi: 10.3390/molecules20034020 <http://www.mdpi.com/1420-3049/20/3/4020> .87 -- Kiet Tran, Michelle R. Arkin and Peter A. Beal Tethering in RNA: An RNA-Binding Fragment Discovery Tool Reprinted from: *Molecules* 2015, 20(3), 4148-4161; doi: 10.3390/molecules20034148 <http://www.mdpi.com/1420-3049/20/3/4148> .105 -- Yuichi Yoshimura, Satoshi Kobayashi, Hitomi Kaneko, Takeshi Suzuki and Tomozumi Imamichi Construction of an Isonucleoside on a 2,6-Dioxobicyclo[3.2.0]-heptane Skeleton Reprinted from: *Molecules* 2015, 20(3), 4623-4634; doi: 10.3390/molecules20034623 <http://www.mdpi.com/1420-3049/20/3/4623> .117 -- iv Takuya Akisawa, Yuki Ishizawa and Fumi Nagatsugi Synthesis of Peptide Nucleic Acids Containing a Crosslinking Agent and Evaluation of Their Reactivities Reprinted from: *Molecules* 2015, 20(3), 4708-4719; doi: 10.3390/molecules20034708 <http://www.mdpi.com/1420-3049/20/3/4708> .127 -- Salvatore V. Giofre, Roberto Romeo, Caterina Carnovale, Raffaella Mancuso, Santa Cirmi, Michele Navarra, Adriana Garozzo and Maria A. Chiacchio Synthesis and Biological Properties of 5-(1H-1,2,3-Triazol-4-yl)isoxazolidines: A New Class of C-Nucleosides Reprinted from: *Molecules* 2015, 20(4), 5260-5275; doi: 10.3390/molecules20045260 <http://www.mdpi.com/1420-3049/20/4/5260> .138 -- Kaustav Chakraborty, Swagata Dasgupta and Tanmaya Pathak Carboxylated Acyclonucleosides: Synthesis and RNase A Inhibition Reprinted from: *Molecules* 2015, 20(4), 5924-5941; doi: 10.3390/molecules20045924 <http://www.mdpi.com/1420-3049/20/4/5924> .151 -- Jolanta Brzezinska and Wojciech T. Markiewicz Non-Nucleosidic Analogues of Polyaminonucleosides and Their Influence on Thermodynamic Properties of Derived Oligonucleotides Reprinted from: *Molecules* 2015, 20(7), 12652-12669; doi: 10.3390/molecules200712652 <http://www.mdpi.com/1420-3049/20/7/12652> .166 -- Sakilam Satishkumar, Prasanna K. Vuram, Siva Subrahmanyam Relangi, Venkateshwarlu Gurram, Hong Zhou, Robert J. Kreitman, Michelle M. Martinez Montemayor, Lijia Yang, Muralidharan Kaliyaperumal, Somesh Sharma, Narender Pottabathini and Mahesh K. Lakshman Cladribine Analogues via O6-(Benzotriazolyl) Derivatives of Guanine Nucleosides Reprinted from: *Molecules* 2015, 20(10), 18437-18463; doi: 10.3390/molecules201018437 <http://www.mdpi.com/1420-3049/20/10/18437> .181 -- Alicja Stachelska-Wierzchowska, Jacek Wierzchowski, Agnieszka Bzowska and Beata Wielgus-Kutrowska Site-Selective Ribosylation of Fluorescent Nucleobase Analogs Using Purine-Nucleoside Phosphorylase as a Catalyst: Effects of Point Mutations Reprinted from: *Molecules* 2016, 21(1), 44; doi: 10.3390/molecules21010044 <http://www.mdpi.com/1420-3049/21/1/44> .203.

Sommario/riassunto

This book contains a collection of twelve state-of-the-art, original papers with results from contemporary research in the syntheses and uses of nucleosides and nucleoside analogues, as well as two reviews on contemporary methodology to modify nucleosides.
