Gabriel Birkus

List of Publications by Year
in descending order

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41 papers	2,223 citations	257450 24 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	2321 citing authors

#	Article	IF	Citations
1	Assessment of Mitochondrial Toxicity in Human Cells Treated with Tenofovir: Comparison with Other Nucleoside Reverse Transcriptase Inhibitors. Antimicrobial Agents and Chemotherapy, 2002, 46, 716-723.	3.2	425
2	Contribution of the organic anion transporter OAT2 to the renal active tubular secretion of creatinine and mechanism for serum creatinine elevations caused by cobicistat. Kidney International, 2014, 86, 350-357.	5.2	198
3	Crystal Structures of HIV-1 Reverse Transcriptase with Etravirine (TMC125) and Rilpivirine (TMC278): Implications for Drug Design. Journal of Medicinal Chemistry, 2010, 53, 4295-4299.	6.4	191
4	Cathepsin A Is the Major Hydrolase Catalyzing the Intracellular Hydrolysis of the Antiretroviral Nucleotide Phosphonoamidate Prodrugs GS-7340 and GS-9131. Antimicrobial Agents and Chemotherapy, 2007, 51, 543-550.	3.2	156
5	Tenofovir exhibits low cytotoxicity in various human cell types: comparison with other nucleoside reverse transcriptase inhibitors. Antiviral Research, 2002, 54, 37-45.	4.1	118
6	Synthesis and Significant Cytostatic Activity of 7-Hetaryl-7-deazaadenosines. Journal of Medicinal Chemistry, 2011, 54, 5498-5507.	6.4	101
7	Activation of 9-[(R)-2-[[(S)-[[(S)-1-(Isopropoxycarbonyl)ethyl]amino] phenoxyphosphinyl]-methoxy]propyl]adenine (GS-7340) and Other Tenofovir Phosphonoamidate Prodrugs by Human Proteases. Molecular Pharmacology, 2008, 74, 92-100.	2.3	92
8	GS-9219â€"A Novel Acyclic Nucleotide Analogue with Potent Antineoplastic Activity in Dogs with Spontaneous Nonâ€"Hodgkin's Lymphoma. Clinical Cancer Research, 2008, 14, 2824-2832.	7.0	74
9	6-(Het)aryl-7-Deazapurine Ribonucleosides as Novel Potent Cytostatic Agents. Journal of Medicinal Chemistry, 2010, 53, 460-470.	6.4	73
10	Intracellular Activation of Tenofovir Alafenamide and the Effect of Viral and Host Protease Inhibitors. Antimicrobial Agents and Chemotherapy, 2016, 60, 316-322.	3.2	59
11	Discovery of GS-9131: Design, synthesis and optimization of amidate prodrugs of the novel nucleoside phosphonate HIV reverse transcriptase (RT) inhibitor GS-9148. Bioorganic and Medicinal Chemistry, 2010, 18, 3606-3617.	3.0	57
12	Highly Selective Phosphatidylinositol 4-Kinase IIIÎ² Inhibitors and Structural Insight into Their Mode of Action. Journal of Medicinal Chemistry, 2015, 58, 3767-3793.	6.4	54
13	Rational Design of Novel Highly Potent and Selective Phosphatidylinositol 4-Kinase IIIÎ² (PI4KB) Inhibitors as Broad-Spectrum Antiviral Agents and Tools for Chemical Biology. Journal of Medicinal Chemistry, 2017, 60, 100-118.	6.4	50
14	Evaluation of the Effect of Cobicistat on the In Vitro Renal Transport and Cytotoxicity Potential of Tenofovir. Antimicrobial Agents and Chemotherapy, 2013, 57, 4982-4989.	3.2	41
15	Metabolism and Pharmacokinetics of the Anti-Hepatitis C Virus Nucleotide Prodrug GS-6620. Antimicrobial Agents and Chemotherapy, 2014, 58, 1943-1951.	3.2	40
16	Tenofovir Diphosphate Is a Poor Substrate and a Weak Inhibitor of Rat DNA Polymerases Î±, Î´, and Îµ*. Antimicrobial Agents and Chemotherapy, 2002, 46, 1610-1613.	3.2	39
17	Inhibition of Hepatitis C Virus Replication by GS-6620, a Potent C -Nucleoside Monophosphate Prodrug. Antimicrobial Agents and Chemotherapy, 2014, 58, 1930-1942.	3.2	38
18	GS-9191 Is a Novel Topical Prodrug of the Nucleotide Analog 9-(2-Phosphonylmethoxyethyl)Guanine with Antiproliferative Activity and Possible Utility in the Treatment of Human Papillomavirus Lesions. Antimicrobial Agents and Chemotherapy, 2009, 53, 2777-2784.	3.2	37

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19	Metabolism and Antiretroviral Activity of Tenofovir Alafenamide in CD4⁺ T-Cells and Macrophages from Demographically Diverse Donors. Antiviral Therapy, 2014, 19, 669-677.	1.0	37
20	Multiple Classes of Antiviral Agents Exhibit In Vitro Activity against Human Rhinovirus Type C. Antimicrobial Agents and Chemotherapy, 2014, 58, 1546-1555.	3.2	36
21	Catalytically-active complex of HIV-1 integrase with a viral DNA substrate binds anti-integrase drugs. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8192-8197.	7.1	33
22	Sugar-modified derivatives of cytostatic 7-(het)aryl-7-deazaadenosines: 2â€²-C-methylribonucleosides, 2â€²-deoxy-2â€²-fluoroarabinonucleosides, arabinonucleosides and 2â€²-deoxyribonucleosides. Bioorganic and Medicinal Chemistry, 2012, 20, 5202-5214.	3.0	31
23	CycloSalâ€phosphate Pronucleotides of Cytostatic 6â€(Het)arylâ€7â€deazapurine Ribonucleosides: Synthesis, Cytostatic Activity, and Inhibition of Adenosine Kinases. ChemMedChem, 2010, 5, 1386-1396.	3.2	29
24	Phosphoramidate pronucleotides of cytostatic 6-aryl-7-deazapurine ribonucleosides. Bioorganic and Medicinal Chemistry, 2011, 19, 229-242.	3.0	25
25	Role of Cathepsin A and Lysosomes in the Intracellular Activation of Novel Antipapillomavirus Agent GS-9191. Antimicrobial Agents and Chemotherapy, 2011, 55, 2166-2173.	3.2	23
26	Discovery of Î²-d-2â€²-deoxy-2â€²-Î±-fluoro-4â€²-Î±-cyano-5-aza-7,9-dideaza adenosine as a potent nucleoside inhibitor of respiratory syncytial virus with excellent selectivity over mitochondrial RNA and DNA polymerases. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2484-2487.	2.2	23
27	Ligand Strain and Its Conformational Complexity Is a Major Factor in the Binding of Cyclic Dinucleotides to STING Protein. Angewandte Chemie - International Edition, 2021, 60, 10172-10178.	13.8	22
28	9-[2-(phosphonomethoxy)ethyl]adenine diphosphate (PMEApp) as a substrate toward replicative DNA polymerases Î±, Î², Îµ, and Îµâ^—. Biochemical Pharmacology, 1999, 58, 487-492.	4.4	21
29	Molecular Determinants of GS-9620-Dependent TLR7 Activation. PLoS ONE, 2016, 11, e0146835.	2.5	17
30	Proteinâ€“Ligand Interactions in the STING Binding Site Probed by Rationally Designed Single-Point Mutations: Experiment and Theory. Biochemistry, 2021, 60, 607-620.	2.5	15
31	Purine analogs as phosphatidylinositol 4-kinase IIIÎ² inhibitors. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2706-2712.	2.2	12
32	DNA-Polymerases Î±, Î² and Îµ from T-Cell Spontaneous Lymphoblastic Leukemia of Sprague-Dawley Inbred Rat: Isolation and Characterization. Collection of Czechoslovak Chemical Communications, 1995, 60, 1555-1572.	1.0	8
33	STING Agonist-Mediated Cytokine Secretion Is Accompanied by Monocyte Apoptosis. ACS Infectious Diseases, 2022, 8, 463-471.	3.8	8
34	The Substrate Activity of (S)-9-[3-Hydroxy-(2-phosphonomethoxy)Propyl]Adenine Diphosphate toward DNA Polymerases Î±, Î² and Îµ. Antiviral Chemistry and Chemotherapy, 2004, 15, 23-33.	0.6	7
35	Discovery of a 2â€²-fluoro-2â€²- C -methyl C -nucleotide HCV polymerase inhibitor and a phosphoramidate prodrug with favorable properties. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 1840-1847.	2.2	7
36	Interactions of 1-[(S)-3-Hydroxy-2-(phosphonomethoxy)propyl]cytosine (Cidofovir) Diphosphate with DNA Polymerases Î±, Î² and Îµ*. Collection of Czechoslovak Chemical Communications, 2001, 66, 1698-1706.	1.0	7

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37	Nucleotide Prodrug Containing a Nonproteinogenic Amino Acid To Improve Oral Delivery of a Hepatitis C Virus Treatment. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	6
38	Nonproteolyzed Form of DNA-Polymerase Îµ from T-Cell Spontaneous Lymphoma of Sprague-Dawley Inbred Rat: Isolation and Characterization. Collection of Czechoslovak Chemical Communications, 1998, 63, 723-731.	1.0	6
39	Ligand Strain and Its Conformational Complexity Is a Major Factor in the Binding of Cyclic Dinucleotides to STING Protein. Angewandte Chemie, 2021, 133, 10260-10266.	2.0	3
40	Synthesis of phosphonate derivatives of 2â€²-deoxy-2â€²-fluorotetradialdose d-nucleosides and tetradialdose d-nucleosides. Tetrahedron, 2021, 89, 132159.	1.9	3
41	HPMPApp as a substrate toward replicative DNA polymerases Îš, Î´ and Îµ. , 1999, , .		1