

Gabriel Birkus

List of Publications by Year in descending order

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papers

2,223
citations

257450

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41
docs citations

41
times ranked

2321
citing authors

#	ARTICLE	IF	CITATIONS
1	STING Agonist-Mediated Cytokine Secretion Is Accompanied by Monocyte Apoptosis. ACS Infectious Diseases, 2022, 8, 463-471.	3.8	8
2	Protein-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
3	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
4	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
5	Synthesis of phosphonate derivatives of 2'-deoxy-2'-fluorotetradialdose d-nucleosides and tetradialdose d-nucleosides. Tetrahedron, 2021, 89, 132159.	1.9	3
6	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
7	Discovery of a 2'-fluoro-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
8	Rational Design of Novel Highly Potent and Selective Phosphatidylinositol 4-Kinase III β (PI4KB) Inhibitors as Broad-Spectrum Antiviral Agents and Tools for Chemical Biology. Journal of Medicinal Chemistry, 2017, 60, 100-118.	6.4	50
9	Purine analogs as phosphatidylinositol 4-kinase III β inhibitors. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2706-2712.	2.2	12
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	Molecular Determinants of GS-9620-Dependent TLR7 Activation. PLoS ONE, 2016, 11, e0146835.	2.5	17
12	Highly Selective Phosphatidylinositol 4-Kinase III β Inhibitors and Structural Insight into Their Mode of Action. Journal of Medicinal Chemistry, 2015, 58, 3767-3793.	6.4	54
13	Discovery of 2'-d-2'-deoxy-2'-fluoro-4'-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
14	Multiple Classes of Antiviral Agents Exhibit <i>In Vitro</i> Activity against Human Rhinovirus Type C. Antimicrobial Agents and Chemotherapy, 2014, 58, 1546-1555.	3.2	36
15	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
16	Metabolism and Pharmacokinetics of the Anti-Hepatitis C Virus Nucleotide Prodrug GS-6620. Antimicrobial Agents and Chemotherapy, 2014, 58, 1943-1951.	3.2	40
17	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
18	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

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19	Evaluation of the Effect of Cobicistat on the <i>In Vitro</i> Renal Transport and Cytotoxicity Potential of Tenofovir. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 4982-4989.	3.2	41
20	Sugar-modified derivatives of cytostatic 7-(het)aryl-7-deazaadenosines: 2'-C-methylribonucleosides, 2'-deoxy-2'-fluoroarabinonucleosides, arabinonucleosides and 2'-deoxyribonucleosides. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 5202-5214.	3.0	31
21	Synthesis and Significant Cytostatic Activity of 7-Hetaryl-7-deazaadenosines. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5498-5507.	6.4	101
22	Phosphoramidate pronucleotides of cytostatic 6-aryl-7-deazapurine ribonucleosides. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 229-242.	3.0	25
23	Role of Cathepsin A and Lysosomes in the Intracellular Activation of Novel Antipapillomavirus Agent GS-9191. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2166-2173.	3.2	23
24	<i>Cyclophosphate</i> Pronucleotides of Cytostatic 6-(Het)aryl-7-deazapurine Ribonucleosides: Synthesis, Cytostatic Activity, and Inhibition of Adenosine Kinases. <i>ChemMedChem</i> , 2010, 5, 1386-1396.	3.2	29
25	Discovery of GS-9131: Design, synthesis and optimization of amidate prodrugs of the novel nucleoside phosphonate HIV reverse transcriptase (RT) inhibitor GS-9148. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 3606-3617.	3.0	57
26	6-(Het)aryl-7-Deazapurine Ribonucleosides as Novel Potent Cytostatic Agents. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 460-470.	6.4	73
27	Crystal Structures of HIV-1 Reverse Transcriptase with Etravirine (TMC125) and Rilpivirine (TMC278): Implications for Drug Design. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4295-4299.	6.4	191
28	Catalytically-active complex of HIV-1 integrase with a viral DNA substrate binds anti-integrase drugs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8192-8197.	7.1	33
29	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. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 2777-2784.	3.2	37
30	Activation of 9-[[[2-[[[3-(isopropoxycarbonyl)ethyl]amino]phenoxyphosphinyl]-methoxy]propyl]adenine (GS-7340) and Other Tenofovir Phosphonoamidate Prodrugs by Human Proteases. <i>Molecular Pharmacology</i> , 2008, 74, 92-100.	2.3	92
31	GS-9219: A Novel Acyclic Nucleotide Analogue with Potent Antineoplastic Activity in Dogs with Spontaneous Non-Hodgkin's Lymphoma. <i>Clinical Cancer Research</i> , 2008, 14, 2824-2832.	7.0	74
32	Cathepsin A Is the Major Hydrolase Catalyzing the Intracellular Hydrolysis of the Antiretroviral Nucleotide Phosphonoamidate Prodrugs GS-7340 and GS-9131. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 543-550.	3.2	156
33	The Substrate Activity of 9-[[3-Hydroxy-(2-phosphonomethoxy)propyl]adenine Diphosphate toward DNA Polymerases β , γ and δ . <i>Antiviral Chemistry and Chemotherapy</i> , 2004, 15, 23-33.	0.6	7
34	Tenofovir Diphosphate Is a Poor Substrate and a Weak Inhibitor of Rat DNA Polymerases β , γ , and δ *. <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 1610-1613.	3.2	39
35	Assessment of Mitochondrial Toxicity in Human Cells Treated with Tenofovir: Comparison with Other Nucleoside Reverse Transcriptase Inhibitors. <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 716-723.	3.2	425
36	Tenofovir exhibits low cytotoxicity in various human cell types: comparison with other nucleoside reverse transcriptase inhibitors. <i>Antiviral Research</i> , 2002, 54, 37-45.	4.1	118

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37	Interactions of 1-[(S)-3-Hydroxy-2-(phosphonomethoxy)propyl]cytosine (Cidofovir) Diphosphate with DNA Polymerases $\hat{\alpha}$, $\hat{\gamma}$ and $\hat{\mu}$. Collection of Czechoslovak Chemical Communications, 2001, 66, 1698-1706.	1.0	7
38	9-[2-(phosphonomethoxy)ethyl]adenine diphosphate (PMEApp) as a substrate toward replicative DNA polymerases $\hat{\alpha}$, $\hat{\gamma}$, $\hat{\mu}$, and $\hat{\mu}^*$. Biochemical Pharmacology, 1999, 58, 487-492.	4.4	21
39	HPMPApp as a substrate toward replicative DNA polymerases $\hat{\alpha}$, $\hat{\gamma}$ and $\hat{\mu}$. , 1999, , .		1
40	Nonproteolyzed Form of DNA-Polymerase $\hat{\mu}$ 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
41	DNA-Polymerases $\hat{\alpha}$, $\hat{\gamma}$ and $\hat{\mu}$ 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