Lieve Mj Naesens

List of Publications by Citations

238 papers	7,988 citations	47 h-index	77 g-index
261 ext. papers	8,852 ext. citations	6.1 avg, IF	5.77 L-index

#	Paper	IF	Citations
238	Update on human herpesvirus 6 biology, clinical features, and therapy. *Clinical Microbiology Reviews* , **2005**, 18, 217-45	34	389
237	Differential antiherpesvirus and antiretrovirus effects of the (S) and (R) enantiomers of acyclic nucleoside phosphonates: potent and selective in vitro and in vivo antiretrovirus activities of (R)-9-(2-phosphonomethoxypropyl)-2,6-diaminopurine. *Antimicrobial Agents and Chemotherapy*, **1993**, 37, 332-8	5.9	297
236	Treatment of severe laryngeal papillomatosis with intralesional injections of cidofovir [(S)-1-(3-hydroxy-2-phosphonylmethoxypropyl)cytosine]. *Journal of Medical Virology*, **1998**, 54, 219-25	19.7	203
235	HPMPC (cidofovir), PMEA (adefovir) and Related Acyclic Nucleoside Phosphonate Analogues: A Review of their Pharmacology and Clinical Potential in the Treatment of Viral Infections. *Antiviral Chemistry and Chemotherapy*, **1997**, 8, 1-23	3.5	192
234	9-(2-Phosphonylmethoxyethyl)adenine (PMEA) effectively inhibits retrovirus replication in vitro and simian immunodeficiency virus infection in rhesus monkeys. *Aids*, **1991**, 5, 21-8	3.5	183
233	Marked in vivo antiretrovirus activity of 9-(2-phosphonylmethoxyethyl)adenine, a selective anti-human immunodeficiency virus agent. *Proceedings of the National Academy of Sciences of the United States of America*, **1989**, 86, 332-6	11.5	181
232	Physicochemical characterization of solid dispersions of the antiviral agent UC-781 with polyethylene glycol 6000 and Gelucire 44/14. *European Journal of Pharmaceutical Sciences*, **2000**, 10, 311-22	5.1	171
231	Clinical features and treatment of adenovirus infections. *Reviews in Medical Virology*, **2008**, 18, 357-74	11.7	168
230	Antiviral agents active against human herpesviruses HHV-6, HHV-7 and HHV-8. *Reviews in Medical Virology*, **2001**, 11, 381-95	11.7	138
229	Adjuvant low-dose cidofovir therapy for BK polyomavirus interstitial nephritis in renal transplant recipients. *American Journal of Transplantation*, **2005**, 5, 1997-2004	8.7	129
228	Novel inhibitors of influenza virus fusion: structure-activity relationship and interaction with the viral hemagglutinin. *Journal of Virology*, **2010**, 84, 4277-88	6.6	124
227	6-[2-(Phosphonomethoxy)alkoxy]pyrimidines with antiviral activity. *Journal of Medicinal Chemistry*, **2002**, 45, 1918-29	8.3	120
226	Antiviral treatment is more effective than smallpox vaccination upon lethal monkeypox virus infection. *Nature*, **2006**, 439, 745-8	50.4	119
225	Antiretroviral efficacy and pharmacokinetics of oral bis(isopropyloxycarbonyloxymethyl)-9-(2-phosphonylmethoxypropyl)adenine in mice. *Antimicrobial Agents and Chemotherapy*, **1998**, 42, 1568-73	5.9	111
224	Mechanism of anti-HIV action of masked alaninyl d4T-MP derivatives. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 7295-9	11.5	100
223	The Influenza Virus Polymerase Complex: An Update on Its Structure, Functions, and Significance for Antiviral Drug Design. *Medicinal Research Reviews*, **2016**, 36, 1127-1173	14.4	98
222	Heterocyclic rimantadine analogues with antiviral activity. *Bioorganic and Medicinal Chemistry*, **2006** , 14, 3341-8	3.4	97

221	Inhibition of hypoxanthine-guanine phosphoribosyltransferase by acyclic nucleoside phosphonates: a new class of antimalarial therapeutics. *Journal of Medicinal Chemistry*, **2009**, 52, 4391-9	8.3	90
220	Antiviral activity of selected acyclic nucleoside analogues against human herpesvirus 6. *Antiviral Research*, **1995**, 28, 343-57	10.8	86
219	Design and synthesis of bioactive adamantane spiro heterocycles. *Bioorganic and Medicinal Chemistry Letters*, **2007**, 17, 4358-62	2.9	84
218	Role of MRP4 and MRP5 in biology and chemotherapy. *AAPS PharmSci*, **2002**, 4, E14		82
217	Emerging antiviral strategies to interfere with influenza virus entry. *Medicinal Research Reviews*, **2014**, 34, 301-39	14.4	81
216	Acyclic nucleoside phosphonates containing a second phosphonate group are potent inhibitors of the 6-oxopurine phosphoribosyltransferases and have antimalarial activity. *Malaria Journal*, **2014**, 13, P91	3.6	78
215	Antiviral activity of triazine analogues of 1-(S)-[3-hydroxy-2-(phosphonomethoxy)propyl]cytosine (cidofovir) and related compounds. *Journal of Medicinal Chemistry*, **2007**, 50, 1069-77	8.3	76
214	Antiviral therapy for adenovirus infections. *Antiviral Research*, **2006**, 71, 172-80	10.8	76
213	Role of human hypoxanthine guanine phosphoribosyltransferase in activation of the antiviral agent T-705 (favipiravir). *Molecular Pharmacology*, **2013**, 84, 615-29	4.3	72
212	Intestinal absorption enhancement of the ester prodrug tenofovir disoproxil fumarate through modulation of the biochemical barrier by defined ester mixtures. *Drug Metabolism and Disposition*, **2002**, 30, 924-30	4	72
211	Preclinical studies on thiocarboxanilide UC-781 as a virucidal agent. *Aids*, **1998**, 12, 1129-38	3.5	72
210	Airway proteases: an emerging drug target for influenza and other respiratory virus infections. *Current Opinion in Virology*, **2017**, 24, 16-24	7.5	68
209	Quantitative analysis of human herpesvirus 6 cell tropism. *Journal of Medical Virology*, **2005**, 75, 76-85	19.7	68
208	Exploring the size limit of templates for inhibitors of the M2 ion channel of influenza A virus. *Journal of Medicinal Chemistry*, **2011**, 54, 2646-57	8.3	64
207	Phosphoramidate derivatives of d4T as inhibitors of HIV: the effect of amino acid variation. *Antiviral Research*, **1997**, 35, 195-204	10.8	64
206	Potent, selective and cell-mediated inhibition of human herpesvirus 6 at an early stage of viral replication by the non-nucleoside compound CMV423. *Biochemical Pharmacology*, **2004**, 67, 325-36	6	61
205	Efficacy of (S)-1-(3-hydroxy-2-phosphonylmethoxypropyl)cytosine and 9-(1,3-dihydroxy-2-propoxymethyl)guanine for the treatment of murine cytomegalovirus infection in severe combined immunodeficiency mice. *Journal of Medical Virology*, **1992**, 37, 67-71	19.7	61
204	Preclinical development of bicyclic nucleoside analogues as potent and selective inhibitors of varicella zoster virus. *Journal of Antimicrobial Chemotherapy*, **2007**, 60, 1316-30	5.1	59

203	Antiviral potential of a new generation of acyclic nucleoside phosphonates, the 6-[2-(phosphonomethoxy)alkoxy]-2,4-diaminopyrimidines. *Nucleosides, Nucleotides and Nucleic Acids*, **2005**, 24, 331-41	1.4	59
202	Distinct Effects of T-705 (Favipiravir) and Ribavirin on Influenza Virus Replication and Viral RNA Synthesis. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 6679-6691	5.9	57
201	Mutational analysis of the binding pockets of the diketo acid inhibitor L-742,001 in the influenza virus PA endonuclease. *Journal of Virology*, **2013**, 87, 10524-38	6.6	56
200	Therapeutic potential of PMEA as an antiviral drug. *Reviews in Medical Virology*, **1994**, 4, 147-159	11.7	55
199	9-(2-Phosphonylmethoxyethyl)-2,6-diaminopurine (PMEDAP): a novel agent with anti-human immunodeficiency virus activity in vitro and potent anti-Moloney murine sarcoma virus activity in vivo. *European Journal of Clinical Microbiology and Infectious Diseases*, **1989**, 8, 1043-7	5.3	54
198	Synthesis, cytostatic and anti-HIV evaluations of the new unsaturated acyclic C-5 pyrimidine nucleoside analogues. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 5624-34	3.4	53
197	Acyclic nucleoside phosphonates containing a second phosphonate group are potent inhibitors of 6-oxopurine phosphoribosyltransferases and have antimalarial activity. *Journal of Medicinal Chemistry*, **2013**, 56, 2513-26	8.3	52
196	Conversion of 2$3Sdideoxyadenosine (ddA) and 2$3Sdidehydro-2$3Sdideoxyadenosine (d4A) to their corresponding aryloxyphosphoramidate derivatives markedly potentiates their activity against human immunodeficiency virus and hepatitis B virus. *FEBS Letters*, **1997**, 410, 324-8	3.8	51
195	Antiviral therapies on the horizon for influenza. *Current Opinion in Pharmacology*, **2016**, 30, 106-115	5.1	50
194	Acyclic/carbocyclic guanosine analogues as anti-herpesvirus agents. *Nucleosides, Nucleotides and Nucleic Acids*, **2001**, 20, 271-85	1.4	49
193	Antiviral activity of diverse classes of broad-acting agents and natural compounds in HHV-6-infected lymphoblasts. *Journal of Clinical Virology*, **2006**, 37 Suppl 1, S69-75	14.5	48
192	Specific recognition of the bicyclic pyrimidine nucleoside analogs, a new class of highly potent and selective inhibitors of varicella-zoster virus (VZV), by the VZV-encoded thymidine kinase. *Molecular Pharmacology*, **2002**, 61, 249-54	4.3	48
191	Synthesis and antiviral properties of novel indole-based thiosemicarbazides and 4-thiazolidinones. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 240-6	3.4	47
190	Anti-retrovirus activity of 9-(2-phosphonylmethoxyethyl)adenine (PMEA) in vivo increases when it is less frequently administered. *International Journal of Cancer*, **1990**, 46, 337-40	7.5	47
189	Anti-influenza virus activity and structure-activity relationship of aglycoristocetin derivatives with cyclobutenedione carrying hydrophobic chains. *Antiviral Research*, **2009**, 82, 89-94	10.8	46
188	Ester prodrugs of cyclic 1-(S)-[3-hydroxy-2-(phosphonomethoxy)propyl]-5-azacytosine: synthesis and antiviral activity. *Journal of Medicinal Chemistry*, **2007**, 50, 5765-72	8.3	46
187	Easily accessible polycyclic amines that inhibit the wild-type and amantadine-resistant mutants of the M2 channel of influenza A virus. *Journal of Medicinal Chemistry*, **2014**, 57, 5738-47	8.3	44
186	Transport, uptake, and metabolism of the bis(pivaloyloxymethyl)-ester prodrug of 9-(2-phosphonylmethoxyethyl)adenine in an in vitro cell culture system of the intestinal mucosa (Caco-2). *Pharmaceutical Research*, **1997**, 14, 492-6	4.5	43

185	Role of the human herpesvirus 6 u69-encoded kinase in the phosphorylation of ganciclovir. *Molecular Pharmacology*, **2002**, 62, 714-21	4.3	43
184	2-Chloro-3-pyridin-3-yl-5,6,7,8-tetrahydroindolizine-1-carboxamide (CMV423), a new lead compound for the treatment of human cytomegalovirus infections. *Antiviral Research*, **2002**, 55, 413-24	10.8	42
183	Aza-acyclic nucleoside phosphonates containing a second phosphonate group as inhibitors of the human, Plasmodium falciparum and vivax 6-oxopurine phosphoribosyltransferases and their prodrugs as antimalarial agents. *Journal of Medicinal Chemistry*, **2015**, 58, 827-46	8.3	41
182	New antivirals - mechanism of action and resistance development. *Current Opinion in Microbiology*, **1998**, 1, 535-46	7.9	41
181	The SARS-CoV-2 and other human coronavirus spike proteins are fine-tuned towards temperature and proteases of the human airways. *PLoS Pathogens*, **2021**, 17, e1009500	7.6	41
180	3-Azatetracyclo[5.2.1.1(5,8).0(1,5)]undecane derivatives: from wild-type inhibitors of the M2 ion channel of influenza A virus to derivatives with potent activity against the V27A mutant. *Journal of Medicinal Chemistry*, **2013**, 56, 9265-74	8.3	39
179	Design and synthesis of 1,2-annulated adamantane piperidines with anti-influenza virus activity. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 1534-41	3.4	39
178	Synthesis and biological evaluation of pyrimidine nucleoside monophosphate prodrugs targeted against influenza virus. *Antiviral Research*, **2012**, 94, 35-43	10.8	38
177	(R)-9-(2-phosphonylmethoxypropyl)-2,6-diaminopurine is a potent inhibitor of feline immunodeficiency virus infection. *Antimicrobial Agents and Chemotherapy*, **1995**, 39, 746-9	5.9	38
176	Investigation of the salicylaldehyde thiosemicarbazone scaffold for inhibition of influenza virus PA endonuclease. *Journal of Biological Inorganic Chemistry*, **2015**, 20, 1109-21	3.7	37
175	Antitumor potential of acyclic nucleoside phosphonates. *Nucleosides & Nucleotides*, **1999**, 18, 759-71		37
174	N-acylhydrazone inhibitors of influenza virus PA endonuclease with versatile metal binding modes. *Scientific Reports*, **2016**, 6, 31500	4.9	36
173	A versatile salicyl hydrazonic ligand and its metal complexes as antiviral agents. *Journal of Inorganic Biochemistry*, **2015**, 150, 9-17	4.2	36
172	Inhibition of the Escherichia coli 6-oxopurine phosphoribosyltransferases by nucleoside phosphonates: potential for new antibacterial agents. *Journal of Medicinal Chemistry*, **2013**, 56, 6967-84	8.3	35
171	Diazo transfer-click reaction route to new, lipophilic teicoplanin and ristocetin aglycon derivatives with high antibacterial and anti-influenza virus activity: an aggregation and receptor binding study. *Journal of Medicinal Chemistry*, **2009**, 52, 6053-61	8.3	34
170	6-oxopurine phosphoribosyltransferase: a target for the development of antimalarial drugs. *Current Topics in Medicinal Chemistry*, **2011**, 11, 2085-102	3	33
169	Design and synthesis of bioactive 1,2-annulated adamantane derivatives. *Organic and Biomolecular Chemistry*, **2008**, 6, 3177-85	3.9	33
168	Single-dose administration of 9-(2-phosphonylmethoxyethyl)adenine (PMEA) and 9-(2-phosphonylmethoxyethyl)-2,6-diaminopurine (PMEDAP) in the prophylaxis of retrovirus infection in vivo. *Antiviral Research*, **1991**, 16, 53-64	10.8	33

167	First Crystal Structures of Mycobacterium tuberculosis 6-Oxopurine Phosphoribosyltransferase: Complexes with GMP and Pyrophosphate and with Acyclic Nucleoside Phosphonates Whose Prodrugs Have Antituberculosis Activity. *Journal of Medicinal Chemistry*, **2015**, 58, 4822-38	8.3	32
166	Plasmodium vivax hypoxanthine-guanine phosphoribosyltransferase: a target for anti-malarial chemotherapy. *Molecular and Biochemical Parasitology*, **2010**, 173, 165-9	1.9	32
165	N6-cyclopropyl-PMEDAP: a novel derivative of 9-(2-phosphonylmethoxyethyl)-2,6-diaminopurine (PMEDAP) with distinct metabolic, antiproliferative, and differentiation-inducing properties. *Biochemical Pharmacology*, **1999**, 58, 311-23	6	32
164	Synthesis and pharmacological evaluation of several ring-contracted amantadine analogs. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 9925-36	3.4	31
163	Metal-chelating 2-hydroxyphenyl amide pharmacophore for inhibition of influenza virus endonuclease. *Molecular Pharmaceutics*, **2014**, 11, 304-16	5.6	30
162	Synthesis and antiviral evaluation of acyclic azanucleosides developed from sulfanilamide as a lead structure. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 8379-89	3.4	30
161	Antiviral properties of new arylsulfone derivatives with activity against human betaherpesviruses. *Antiviral Research*, **2006**, 72, 60-7	10.8	30
160	An integrated biological approach to guide the development of metal-chelating inhibitors of influenza virus PA endonuclease. *Molecular Pharmacology*, **2015**, 87, 323-37	4.3	29
159	Intracytoplasmic trapping of influenza virus by a lipophilic derivative of aglycoristocetin. *Journal of Virology*, **2012**, 86, 9416-31	6.6	29
158	Different Mutations in the HHV-6 DNA Polymerase Gene Accounting for Resistance to Foscarnet. *Antiviral Therapy*, **2007**, 12, 877-888	1.6	29
157	Application of the phosphoramidate ProTide approach to the antiviral drug ribavirin. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 2748-55	3.4	28
156	Design and synthesis of bioactive adamantanaminoalcohols and adamantanamines. *European Journal of Medicinal Chemistry*, **2010**, 45, 5022-30	6.8	28
155	Characterization of a cidofovir-resistant HHV-6 mutant obtained by in vitro selection. *Antiviral Research*, **2008**, 77, 237-40	10.8	28
154	In vitro, ex vivo, and in situ intestinal absorption characteristics of the antiviral ester prodrug adefovir dipivoxil. *Journal of Pharmaceutical Sciences*, **2000**, 89, 1054-62	3.9	28
153	Treatment of adenoviral conjunctivitis with topical cidofovir. *Cornea*, **1996**, 15, 546	3.1	28
152	Inhibitory effects of 9-(2-phosphonylmethoxyethyl)adenine and 3Sazido-2S3Sdideoxythymidine on tumor development in mice inoculated intracerebrally with Moloney murine sarcoma virus. *International Journal of Cancer*, **1990**, 45, 486-9	7.5	28
151	Suboptimal Response to Adefovir Dipivoxil Therapy for Chronic Hepatitis B in Nucleoside-Naive Patients is not due to Pre-Existing Drug-Resistant Mutants. *Antiviral Therapy*, **2008**, 13, 381-388	1.6	28
150	In search of effective anti-HHV-6 agents. *Journal of Clinical Virology*, **2006**, 37 Suppl 1, S82-6	14.5	27

149	Evaluation of the potential of ion pair formation to improve the oral absorption of two potent antiviral compounds, AMD3100 and PMPA. *International Journal of Pharmaceutics*, **1999**, 186, 127-36	6.5	27
148	Efficacy of oral 9-(2-phosphonylmethoxyethyl)-2,6-diaminopurine (PMEDAP) in the treatment of retrovirus and cytomegalovirus infections in mice. *Journal of Medical Virology*, **1993**, 39, 167-72	19.7	27
147	Microwave assisted synthesis and anti-influenza virus activity of 1-adamantyl substituted N-(1-thia-4-azaspiro[4.5]decan-4-yl)carboxamide derivatives. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 7155-9	3.4	26
146	Human herpesvirus 6 infection arrests cord blood mononuclear cells in G(2) phase of the cell cycle. *FEBS Letters*, **2004**, 560, 25-9	3.8	26
145	Mouse adenovirus type 1 infection in SCID mice: an experimental model for antiviral therapy of systemic adenovirus infections. *Antimicrobial Agents and Chemotherapy*, **2005**, 49, 4689-99	5.9	26
144	Alpha-carboxy nucleoside phosphonates as universal nucleoside triphosphate mimics. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3475-80	11.5	25
143	Virtual Screening and Biological Validation of Novel Influenza Virus PA Endonuclease Inhibitors. *ACS Medicinal Chemistry Letters*, **2015**, 6, 866-71	4.3	25
142	Antimalarial activity of prodrugs of N-branched acyclic nucleoside phosphonate inhibitors of 6-oxopurine phosphoribosyltransferases. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 5502-10	3.4	25
141	Synthesis and Anti-influenza A Virus Activity of 2,2-Dialkylamantadines and Related Compounds. *ACS Medicinal Chemistry Letters*, **2012**, 3, 1065-9	4.3	25
140	6-[2-phosphonomethoxy)alkoxy]-2,4-diaminopyrimidines: a new class of acyclic pyrimidine nucleoside phosphonates with antiviral activity. *Nucleosides, Nucleotides and Nucleic Acids*, **2004**, 23, 1321-7	1.4	25
139	First discovery of novel 3-hydroxy-quinazoline-2,4(1H,3H)-diones as specific anti-vaccinia and adenovirus agents via Sprivileged scaffoldSrefining approach. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 5182-5186	2.9	25
138	Synthesis of ester prodrugs of 9-(S)-[3-hydroxy-2-(phosphonomethoxy)propyl]-2,6-diaminopurine (HPMPDAP) as anti-poxvirus agents. *Journal of Medicinal Chemistry*, **2010**, 53, 6825-37	8.3	24
137	Human herpesvirus 6 DNA polymerase: enzymatic parameters, sensitivity to ganciclovir and determination of the role of the A961V mutation in HHV-6 ganciclovir resistance. *Antiviral Research*, **2004**, 64, 17-25	10.8	24
136	Design and synthesis of novel Imidazo[2,1-b]thiazole derivatives as potent antiviral and antimycobacterial agents. *Bioorganic Chemistry*, **2020**, 95, 103496	5.1	24
135	Azapropellanes with anti-influenza a virus activity. *ACS Medicinal Chemistry Letters*, **2014**, 5, 831-6	4.3	23
134	Synthesis of a cluster-forming sialylthio-D-galactose fullerene conjugate and evaluation of its interaction with influenza virus hemagglutinin and neuraminidase. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 2420-3	2.9	23
133	Therapeutic Potential of HPMPC (Cidofovir), PMEA (Adefovir) and Related Acyclic Nucleoside Phosphonate Analogues as Broad-Spectrum Anttviral Agents. *Nucleosides & Nucleotides*, **1997**, 16, 983-992		23
132	Intestinal absorption characteristics of the low solubility thiocarboxanilide UC-781. *International Journal of Pharmaceutics*, **2002**, 234, 113-9	6.5	23

131	4"-Benzoylureido-TSAO derivatives as potent and selective non-nucleoside HCMV inhibitors. Structure-activity relationship and mechanism of antiviral action. *Journal of Medicinal Chemistry*, **2008**, 51, 5823-32	8.3	22
130	Aniline-Based Inhibitors of Influenza H1N1 Virus Acting on Hemagglutinin-Mediated Fusion. *Journal of Medicinal Chemistry*, **2018**, 61, 98-118	8.3	22
129	Role of the viral hemagglutinin in the anti-influenza virus activity of newly synthesized polycyclic amine compounds. *Antiviral Research*, **2013**, 99, 281-91	10.8	21
128	Chelation Motifs Affecting Metal-dependent Viral Enzymes: -acylhydrazone Ligands as Dual Target Inhibitors of HIV-1 Integrase and Reverse Transcriptase Ribonuclease H Domain. *Frontiers in Microbiology*, **2017**, 8, 440	5.7	21
127	Treating HHV-6 Infections **2014**, 311-331		21
126	Alkoxy-5-nitrosopyrimidines: Useful Building Block for the Generation of Biologically Active Compounds. *European Journal of Organic Chemistry*, **2010**, 2010, 3823-3830	3.2	21
125	(S)-9-(3-hydroxy-2-phosphonylmethoxypropyl)adenine [(S)-HPMPA]: a purine analogue with trypanocidal activity in vitro and in vivo. *Tropical Medicine and International Health*, **1996**, 1, 255-63	2.3	21
124	Inhibition of the in vitro growth of Plasmodium falciparum by acyclic nucleoside phosphonates. *International Journal of Antimicrobial Agents*, **1999**, 12, 53-61	14.3	21
123	Influenza virus entry via the GM3 ganglioside-mediated platelet-derived growth factor receptor signalling pathway. *Journal of General Virology*, **2019**, 100, 583-601	4.9	21
122	Host dihydrofolate reductase (DHFR)-directed cycloguanil analogues endowed with activity against influenza virus and respiratory syncytial virus. *European Journal of Medicinal Chemistry*, **2017**, 135, 467-478	6.8	20
121	Carrier mechanisms involved in the transepithelial transport of bis(POM)-PMEA and its metabolites across Caco-2 monolayers. *Pharmaceutical Research*, **1998**, 15, 1168-73	4.5	20
120	Synthesis and pharmacological evaluation of (2-oxaadamant-1-yl)amines. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 3198-206	3.4	19
119	Click reaction synthesis of carbohydrate derivatives from ristocetin aglycon with antibacterial and antiviral activity. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 2713-7	2.9	19
118	Intracellular metabolism of the new antiviral compound 1-(S)-[3-hydroxy-2-(phosphonomethoxy)propyl]-5-azacytosine. *Biochemical Pharmacology*, **2008**, 76, 997-1005	6	19
117	Synthesis and Biological Evaluation of Novel (thio)semicarbazone-Based Benzimidazoles as Antiviral Agents against Human Respiratory Viruses. *Molecules*, **2020**, 25,	4.8	19
116	Synthesis and evaluation of symmetric acyclic nucleoside bisphosphonates as inhibitors of the Plasmodium falciparum, Plasmodium vivax and human 6-oxopurine phosphoribosyltransferases and the antimalarial activity of their prodrugs. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 4008-4030	3.4	18
115	Prodrugs of the Phosphoribosylated Forms of Hydroxypyrazinecarboxamide Pseudobase T-705 and Its De-Fluoro Analogue T-1105 as Potent Influenza Virus Inhibitors. *Journal of Medicinal Chemistry*, **2018**, 61, 6193-6210	8.3	18
114	Inhibitory effect of 9-(2-phosphonylmethoxyethyl)adenine on visna virus infection in lambs: a model for in vivo testing of candidate anti-human immunodeficiency virus drugs. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 3283-7	11.5	18

113	New polycyclic dual inhibitors of the wild type and the V27A mutant M2 channel of the influenza A virus with unexpected binding mode. *European Journal of Medicinal Chemistry*, **2015**, 96, 318-29	6.8	17
112	Novel indole-flutimide heterocycles with activity against influenza PA endonuclease and hepatitis C virus. *MedChemComm*, **2016**, 7, 447-456	5	17
111	Hemagglutinin Cleavability, Acid Stability, and Temperature Dependence Optimize Influenza B Virus for Replication in Human Airways. *Journal of Virology*, **2019**, 94,	6.6	17
110	Antiretroviral activity of metal-chelating HIV-1 integrase inhibitors. *European Journal of Medicinal Chemistry*, **2014**, 83, 594-600	6.8	17
109	Potent differentiation-inducing properties of the antiretroviral agent 9-(2-phosphonylmethoxyethyl) adenine (PMEA) in the rat choriocarcinoma (RCHO) tumor cell model. *Biochemical Pharmacology*, **1998**, 56, 851-9	6	17
108	Synthesis and absolute configuration of novel N,O-psiconucleosides using (R)-N-phenylpantolactam as a resolution agent. *Journal of Organic Chemistry*, **2008**, 73, 6657-65	4.2	17
107	Recovery of humoral immunity is critical for successful antiviral therapy in disseminated mouse adenovirus type 1 infection. *Antimicrobial Agents and Chemotherapy*, **2008**, 52, 1462-71	5.9	17
106	Efficacy of the acyclic nucleoside phosphonates (S)-9-(3-fluoro-2-phosphonylmethoxypropyl)adenine (FPMPA) and 9-(2-phosphonylmethoxyethyl)adenine (PMEA) against feline immunodeficiency virus. *Journal of Acquired Immune Deficiency Syndromes*, **1998**, 17, 120-8		17
105	Anti-herpesvirus activity of (1S,2R)-9-[[1,2-bis(hydroxymethyl)-cycloprop-1-yl]methyl] x guanine (A-5021) in vitro and in vivo. *Antiviral Research*, **2001**, 49, 115-20	10.8	16
104	Inhibition of intestinal metabolism of the antiviral ester prodrug bis(POC)-PMPA by nature-identical fruit extracts as a strategy to enhance its oral absorption: an in vitro study. *Pharmaceutical Research* , **1999**, 16, 1035-40	4.5	16
103	In vivo Antiretroviral Efficacy of Oral bis(POM)-PMEA, the bis(Pivaloyloxymethyl)prodrug of 9-(2-Phosphonylmethoxyethyl) adenine (PMEA). *Nucleosides, Nucleotides and Nucleic Acids*, **1995**, 14, 767-770	1.4	16
102	Metabolism and pharmacokinetics of the anti-HIV-1-specific inhibitor [1-[2,5-bis-O-(tert-butyldimethylsilyl)-beta-D-ribofuranosyl]-3-N-methyl-thymine]-3-spiro-5-(4-amino-1,2,-oxathiole-2,2-dio xide). *Biochemical Pharmacology*, **1993**, 46, 69-77	6	16
101	Synthesis of benzopolycyclic cage amines: NMDA receptor antagonist, trypanocidal and antiviral activities. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 942-8	3.4	15
100	Cidofovir selectivity is based on the different response of normal and cancer cells to DNA damage. *BMC Medical Genomics*, **2013**, 6, 18	3.7	15
99	Successful use of intralesional and intravenous cidofovir in association with indole-3-carbinol in an 8-year-old girl with pulmonary papillomatosis. *Journal of Medical Virology*, **2005**, 75, 332-5	19.7	15
98	Design of Plasmodium vivax Hypoxanthine-Guanine Phosphoribosyltransferase Inhibitors as Potential Antimalarial Therapeutics. *ACS Chemical Biology*, **2018**, 13, 82-90	4.9	15
97	Synthesis and biological evaluation of lipophilic teicoplanin pseudoaglycon derivatives containing a substituted triazole function. *Journal of Antibiotics*, **2017**, 70, 152-157	3.7	14
96	Slow but Steady Wins the Race: Dissimilarities among New Dual Inhibitors of the Wild-Type and the V27A Mutant M2 Channels of Influenza A Virus. *Journal of Medicinal Chemistry*, **2017**, 60, 3727-3738	8.3	14

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