## **Manfred Marschall**

List of Publications by Year in descending order

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81900 98798 5,249 116 39 67 citations g-index h-index papers 118 118 118 4038 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	The Antiviral Activities of Artemisinin and Artesunate. Clinical Infectious Diseases, 2008, 47, 804-811.	5.8	425
2	Enhancement of cytotoxicity of artemisinins toward cancer cells by ferrous iron. Free Radical Biology and Medicine, 2004, 37, 998-1009.	2.9	233
3	Cellular p32 Recruits Cytomegalovirus Kinase pUL97 to Redistribute the Nuclear Lamina. Journal of Biological Chemistry, 2005, 280, 33357-33367.	3.4	158
4	Antiviral activity of artesunate towards wild-type, recombinant, and ganciclovir-resistant human cytomegaloviruses. Journal of Molecular Medicine, 2002, 80, 233-242.	3.9	157
5	Artesunate as a Potent Antiviral Agent in a Patient with Late Drugâ€Resistant Cytomegalovirus Infection after Hematopoietic Stem Cell Transplantation. Clinical Infectious Diseases, 2008, 46, 1455-1457.	5.8	148
6	Novel Chemical Class of pUL97 Protein Kinase-Specific Inhibitors with Strong Anticytomegaloviral Activity. Antimicrobial Agents and Chemotherapy, 2004, 48, 4154-4162.	3.2	136
7	The anti-malaria drug artesunate inhibits replication of cytomegalovirus in vitro and in vivo. Antiviral Research, 2006, 69, 60-69.	4.1	134
8	Antiviral activity of Arthrospira-derived spirulan-like substances. Antiviral Research, 2006, 72, 197-206.	4.1	132
9	Recombinant Green Fluorescent Protein-Expressing Human Cytomegalovirus as a Tool for Screening Antiviral Agents. Antimicrobial Agents and Chemotherapy, 2000, 44, 1588-1597.	3.2	130
10	The protein kinase pUL97 of human cytomegalovirus interacts with and phosphorylates the DNA polymerase processivity factor pUL44. Virology, 2003, 311, 60-71.	2.4	108
11	New efficient artemisinin derived agents against human leukemia cells, human cytomegalovirus and Plasmodium falciparum: 2nd generation 1,2,4-trioxane-ferrocene hybrids. European Journal of Medicinal Chemistry, 2015, 97, 164-172.	5.5	104
12	Highly potent artemisinin-derived dimers and trimers: Synthesis and evaluation of their antimalarial, antileukemia and antiviral activities. Bioorganic and Medicinal Chemistry, 2015, 23, 5452-5458.	3.0	97
13	Cytomegaloviral proteins pUL50 and pUL53 are associated with the nuclear lamina and interact with cellular protein kinase C. Journal of General Virology, 2007, 88, 2642-2650.	2.9	95
14	<i>In Vitro</i> Evaluation of the Activities of the Novel Anticytomegalovirus Compound AIC246 (Letermovir) against Herpesviruses and Other Human Pathogenic Viruses. Antimicrobial Agents and Chemotherapy, 2012, 56, 1135-1137.	3.2	94
15	Innate Nuclear Sensor IF116 Translocates into the Cytoplasm during the Early Stage of <i>In Vitro</i> Human Cytomegalovirus Infection and Is Entrapped in the Egressing Virions during the Late Stage. Journal of Virology, 2014, 88, 6970-6982.	3.4	92
16	A Novel CDK7 Inhibitor of the Pyrazolotriazine Class Exerts Broad-Spectrum Antiviral Activity at Nanomolar Concentrations. Antimicrobial Agents and Chemotherapy, 2015, 59, 2062-2071.	3.2	90
17	Novel Mode of Phosphorylation-triggered Reorganization of the Nuclear Lamina during Nuclear Egress of Human Cytomegalovirus. Journal of Biological Chemistry, 2010, 285, 13979-13989.	3.4	86
18	Cytomegaloviral proteins that associate with the nuclear lamina: components of a postulated nuclear egress complex. Journal of General Virology, 2009, 90, 579-590.	2.9	81

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19	Proteomic Analysis of the Multimeric Nuclear Egress Complex of Human Cytomegalovirus. Molecular and Cellular Proteomics, 2014, 13, 2132-2146.	3.8	79
20	Inhibitors of human cytomegalovirus replication drastically reduce the activity of the viral protein kinase pUL97. Journal of General Virology, 2001, 82, 1439-1450.	2.9	72
21	Crystal Structure of the Human Cytomegalovirus pUL50-pUL53 Core Nuclear Egress Complex Provides Insight into a Unique Assembly Scaffold for Virus-Host Protein Interactions. Journal of Biological Chemistry, 2015, 290, 27452-27458.	3.4	71
22	Direct targeting of human cytomegalovirus protein kinase pUL97 by kinase inhibitors is a novel principle for antiviral therapy. Journal of General Virology, 2002, 83, 1013-1023.	2.9	70
23	Synthesis of Novel Hybrids of Quinazoline and Artemisinin with High Activities against <i>Plasmodium falciparum</i> , Human Cytomegalovirus, and Leukemia Cells. ACS Omega, 2017, 2, 2422-2431.	3.5	70
24	Synthesis of Thymoquinone–Artemisinin Hybrids: New Potent Antileukemia, Antiviral, and Antimalarial Agents. ACS Medicinal Chemistry Letters, 2018, 9, 534-539.	2.8	70
25	Protein kinase inhibitors of the quinazoline class exert anti-cytomegaloviral activity in vitro and in vivo. Antiviral Research, 2008, 79, 49-61.	4.1	68
26	The unique antiviral activity of artesunate is broadly effective against human cytomegaloviruses including therapy-resistant mutants. Antiviral Research, 2011, 92, 364-368.	4.1	68
27	Facile access to potent antiviral quinazoline heterocycles with fluorescence properties via merging metal-free domino reactions. Nature Communications, 2017, 8, 15071.	12.8	68
28	Human cytomegalovirus kinetics following institution of artesunate after hematopoietic stem cell transplantation. Antiviral Research, 2011, 90, 183-186.	4.1	65
29	Sensitivity of human herpesvirus 6 and other human herpesviruses to the broad-spectrum antiinfective drug artesunate. Journal of Clinical Virology, 2009, 46, 24-28.	3.1	60
30	Synthesis of Artemisininâ€Derived Dimers, Trimers and Dendrimers: Investigation of Their Antimalarial and Antiviral Activities Including Putative Mechanisms of Action. Chemistry - A European Journal, 2018, 24, 8103-8113.	3.3	60
31	Regulatory Roles of Protein Kinases in Cytomegalovirus Replication. Advances in Virus Research, 2011, 80, 69-101.	2.1	57
32	Analysis of the Structureâ^'Activity Relationship of Four Herpesviral UL97 Subfamily Protein Kinases Reveals Partial but not Full Functional Conservationâ€. Journal of Medicinal Chemistry, 2006, 49, 7044-7053.	6.4	55
33	Cyclin-dependent Kinases Phosphorylate the Cytomegalovirus RNA Export Protein pUL69 and Modulate Its Nuclear Localization and Activity. Journal of Biological Chemistry, 2009, 284, 8605-8613.	3.4	49
34	The broad-spectrum antiinfective drug artesunate interferes with theÂcanonical nuclear factor kappa B (NF-κB) pathway by targeting RelA/p65. Antiviral Research, 2015, 124, 101-109.	4.1	48
35	Cytomegaloviral protein kinase pUL97 interacts with the nuclear mRNA export factor pUL69 to modulate its intranuclear localization and activity. Journal of General Virology, 2009, 90, 567-578.	2.9	46
36	The Prolyl Isomerase Pin1 Promotes the Herpesvirus-Induced Phosphorylation-Dependent Disassembly of the Nuclear Lamina Required for Nucleocytoplasmic Egress. PLoS Pathogens, 2016, 12, e1005825.	4.7	43

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37	Synthesis of new betulinic acid/betulin-derived dimers and hybrids with potent antimalarial and antiviral activities. Bioorganic and Medicinal Chemistry, 2019, 27, 110-115.	3.0	43
38	Mapping of a self-interaction domain of the cytomegalovirus protein kinase pUL97. Journal of General Virology, 2007, 88, 395-404.	2.9	40
39	Molecular targets for antiviral therapy of cytomegalovirus infections. Future Microbiology, 2009, 4, 731-742.	2.0	40
40	Profiling of the kinome of cytomegalovirus-infected cells reveals the functional importance of host kinases Aurora A, ABL and AMPK. Antiviral Research, 2013, 99, 139-148.	4.1	40
41	Synthesis of Artemisinin–Estrogen Hybrids Highly Active against HCMV, <i>P. falciparum</i> , and Cervical and Breast Cancer. ACS Medicinal Chemistry Letters, 2018, 9, 1128-1133.	2.8	40
42	The cytomegalovirus egress proteins pUL50 and pUL53 are translocated to the nuclear envelope through two distinct modes of nuclear import. Journal of General Virology, 2013, 94, 2056-2069.	2.9	39
43	The human cytomegalovirus nuclear egress complex unites multiple functions: Recruitment of effectors, nuclear envelope rearrangement, and docking to nuclear capsids. Reviews in Medical Virology, 2017, 27, e1934.	8.3	39
44	Assessment of drug candidates for broad-spectrum antiviral therapy targeting cellular pyrimidine biosynthesis. Antiviral Research, 2013, 100, 640-648.	4.1	38
45	Chemically Engineered Sulfated Glucans from Rice Bran Exert Strong Antiviral Activity at the Stage of Viral Entry. Journal of Natural Products, 2013, 76, 2180-2188.	3.0	38
46	Cytomegalovirus pUL50 is the multi-interacting determinant of the core nuclear egress complex (NEC) that recruits cellular accessory NEC components. Journal of General Virology, 2016, 97, 1676-1685.	2.9	38
47	Access to new highly potent antileukemia, antiviral and antimalarial agents via hybridization of natural products (homo)egonol, thymoquinone and artemisinin. Bioorganic and Medicinal Chemistry, 2018, 26, 3610-3618.	3.0	37
48	Protein kinases responsible for the phosphorylation of the nuclear egress core complex of human cytomegalovirus. Journal of General Virology, 2017, 98, 2569-2581.	2.9	36
49	Specific Residues of a Conserved Domain in the N Terminus of the Human Cytomegalovirus pUL50 Protein Determine Its Intranuclear Interaction with pUL53. Journal of Biological Chemistry, 2012, 287, 24004-24016.	3.4	35
50	IMU-838, a Developmental DHODH Inhibitor in Phase II for Autoimmune Disease, Shows Anti-SARS-CoV-2 and Broad-Spectrum Antiviral Efficacy In Vitro. Viruses, 2020, 12, 1394.	3.3	35
51	Modification of the major tegument protein pp65 of human cytomegalovirus inhibits virus growth and leads to the enhancement of a protein complex with pUL69 and pUL97 in infected cells. Journal of General Virology, 2010, 91, 2531-2541.	2.9	34
52	The Cytomegalovirus Protein Kinase pUL97: Host Interactions, Regulatory Mechanisms and Antiviral Drug Targeting. Microorganisms, 2020, 8, 515.	3.6	34
53	Two isoforms of the protein kinase pUL97 of human cytomegalovirus are differentially regulated in their nuclear translocation. Journal of General Virology, 2011, 92, 638-649.	2.9	33
54	Antiviral Effects of Artesunate on JC Polyomavirus Replication in COS-7 Cells. Antimicrobial Agents and Chemotherapy, 2014, 58, 6724-6734.	3.2	33

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55	Chemically sulfated polysaccharides from natural sources: Assessment of extraction-sulfation efficiencies, structural features and antiviral activities. International Journal of Biological Macromolecules, 2019, 136, 521-530.	<b>7.</b> 5	33
56	Influenza A virus proteins PB1 and NS1 are subject to functionally important phosphorylation by protein kinase C. Journal of General Virology, 2009, 90, 1392-1397.	2.9	32
57	A reporter system for Epstein-Barr virus (EBV) lytic replication: Anti-EBV activity of the broad anti-herpesviral drug artesunate. Journal of Virological Methods, 2011, 173, 334-339.	2.1	32
58	RICK Activates a NF-κB-dependent Anti-human Cytomegalovirus Response. Journal of Biological Chemistry, 2004, 279, 9642-9652.	3.4	31
59	Recruitment of cyclin-dependent kinase 9 to nuclear compartments during cytomegalovirus late replication: importance of an interaction between viral pUL69 and cyclin T1. Journal of General Virology, 2011, 92, 1519-1531.	2.9	30
60	High-resolution crystal structures of two prototypical $\hat{l}^2$ - and $\hat{l}^3$ -herpesviral nuclear egress complexes unravel the determinants of subfamily specificity. Journal of Biological Chemistry, 2020, 295, 3189-3201.	3.4	28
61	Differential Properties of Cytomegalovirus pUL97 Kinase Isoforms Affect Viral Replication and Maribavir Susceptibility. Journal of Virology, 2014, 88, 4776-4785.	3.4	26
62	Antiviral Effects of Artesunate on Polyomavirus BK Replication in Primary Human Kidney Cells. Antimicrobial Agents and Chemotherapy, 2014, 58, 279-289.	3.2	26
63	Inhibitors of dual-specificity tyrosine phosphorylation-regulated kinases (DYRK) exert a strong anti-herpesviral activity. Antiviral Research, 2017, 143, 113-121.	4.1	26
64	Artesunate-derived monomeric, dimeric and trimeric experimental drugs – Their unique mechanistic basis and pronounced antiherpesviral activity. Antiviral Research, 2018, 152, 104-110.	4.1	26
65	Human Cytomegalovirus Nuclear Capsids Associate with the Core Nuclear Egress Complex and the Viral Protein Kinase pUL97. Viruses, 2018, 10, 35.	3.3	26
66	In vivo proof-of-concept for two experimental antiviral drugs, both directed to cellular targets, using a murine cytomegalovirus model. Antiviral Research, 2019, 161, 63-69.	4.1	26
67	Nuclear Egress Complexes of HCMV and Other Herpesviruses: Solving the Puzzle of Sequence Coevolution, Conserved Structures and Subfamily-Spanning Binding Properties. Viruses, 2020, 12, 683.	3.3	23
68	Development of a PROTAC-Based Targeting Strategy Provides a Mechanistically Unique Mode of Anti-Cytomegalovirus Activity. International Journal of Molecular Sciences, 2021, 22, 12858.	4.1	23
69	Human Cytomegalovirus Replication Is Strictly Inhibited by siRNAs Targeting UL54, UL97 or UL122/123 Gene Transcripts. PLoS ONE, 2014, 9, e97231.	2.5	22
70	Combinatorial Drug Treatments Reveal Promising Anticytomegaloviral Profiles for Clinically Relevant Pharmaceutical Kinase Inhibitors (PKIs). International Journal of Molecular Sciences, 2021, 22, 575.	4.1	22
71	Nuclear import of isoforms of the cytomegalovirus kinase pUL97 is mediated by differential activity of NLS1 and NLS2 both acting through classical importin- $\hat{l}\pm$ binding. Journal of General Virology, 2012, 93, 1756-1768.	2.9	21
72	The Cyclin-Dependent Kinase Ortholog pUL97 of Human Cytomegalovirus Interacts with Cyclins. Viruses, 2013, 5, 3213-3230.	3.3	21

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73	Transmembrane Protein pUL50 of Human Cytomegalovirus Inhibits ISGylation by Downregulating UBE1L. Journal of Virology, 2018, 92, .	3.4	21
74	Proteomic Interaction Patterns between Human Cyclins, the Cyclin-Dependent Kinase Ortholog pUL97 and Additional Cytomegalovirus Proteins. Viruses, 2016, 8, 219.	3.3	19
75	Human cytomegalovirus utilises cellular dual-specificity tyrosine phosphorylation-regulated kinases during placental replication. Placenta, 2018, 72-73, 10-19.	1.5	19
76	Cyclins B1, T1, and H differ in their molecular mode of interaction with cytomegalovirus protein kinase pUL97. Journal of Biological Chemistry, 2019, 294, 6188-6203.	3.4	19
77	Novel cytomegalovirus-inhibitory compounds of the class pyrrolopyridines show a complex pattern of target binding that suggests an unusual mechanism of antiviral activity. Antiviral Research, 2018, 159, 84-94.	4.1	18
78	(Iso)Quinoline–Artemisinin Hybrids Prepared through Click Chemistry: Highly Potent Agents against Viruses. Chemistry - A European Journal, 2020, 26, 12019-12026.	3.3	18
79	The Interaction between Cyclin B1 and Cytomegalovirus Protein Kinase pUL97 is Determined by an Active Kinase Domain. Viruses, 2015, 7, 4582-4601.	3.3	17
80	New insight into the phosphorylation-regulated intranuclear localization of human cytomegalovirus pUL69 mediated by cyclin-dependent kinases (CDKs) and viral CDK orthologue pUL97. Journal of General Virology, 2016, 97, 144-151.	2.9	17
81	Hepatitis B virus surface antigen as a reporter of promoter activity. Gene, 1989, 81, 109-117.	2.2	16
82	Mass Spectrometry-Based Characterization of the Virion Proteome, Phosphoproteome, and Associated Kinase Activity of Human Cytomegalovirus. Microorganisms, 2020, 8, 820.	3.6	16
83	Patterns of Autologous and Nonautologous Interactions between Core Nuclear Egress Complex (NEC) Proteins of $\hat{l}_{\pm}$ -, $\hat{l}^{2}$ - and $\hat{l}^{3}$ -Herpesviruses. Viruses, 2020, 12, 303.	3.3	16
84	Anti-Cytomegalovirus Activity of Sulfated Glucans Generated from a Commercial Preparation of Rice Bran. Antiviral Chemistry and Chemotherapy, 2010, 21, 85-95.	0.6	15
85	A quantitative nuclear egress assay to investigate the nucleocytoplasmic capsid release of human cytomegalovirus. Journal of Virological Methods, 2020, 283, 113909.	2.1	15
86	Begomoviral Movement Protein Effects in Human and Plant Cells: Towards New Potential Interaction Partners. Viruses, 2017, 9, 334.	3.3	14
87	A highly potent trimeric derivative of artesunate shows promising treatment profiles in experimental models for congenital HCMV infection in vitro and ex vivo. Antiviral Research, 2020, 175, 104700.	4.1	14
88	Target verification of artesunate-related antiviral drugs: Assessing the role of mitochondrial and regulatory proteins by click chemistry and fluorescence labeling. Antiviral Research, 2020, 180, 104861.	4.1	13
89	Properties of Oligomeric Interaction of the Cytomegalovirus Core Nuclear Egress Complex (NEC) and Its Sensitivity to an NEC Inhibitory Small Molecule. Viruses, 2021, 13, 462.	<b>3.</b> 3	13
90	Artesunate derivative TF27 inhibits replication and pathogenesis of an oncogenic avian alphaherpesvirus. Antiviral Research, 2019, 171, 104606.	4.1	12

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91	The trimeric artesunate derivative TF27 exerts strong anti-cytomegaloviral efficacy: Focus on prophylactic efficacy and oral treatment of immunocompetent mice. Antiviral Research, 2020, 178, 104788.	4.1	12
92	Phenotypical Characterization of the Nuclear Egress of Recombinant Cytomegaloviruses Reveals Defective Replication upon ORF-UL50 Deletion but Not pUL50 Phosphosite Mutation. Viruses, 2021, 13, 165.	3 <b>.</b> 3	12
93	Stimulatory effects of human cytomegalovirus tegument protein pp71 lead to increased expression of CCL2 (monocyte chemotactic protein-1) during infection. Journal of General Virology, 2015, 96, 1855-1862.	2.9	12
94	Cyclin-Dependent Kinases (CDKs) and the Human Cytomegalovirus-Encoded CDK Ortholog pUL97 Represent Highly Attractive Targets for Synergistic Drug Combinations. International Journal of Molecular Sciences, 2022, 23, 2493.	4.1	12
95	Wedelolactone inhibits human cytomegalovirus replication by targeting distinct steps of the viral replication cycle. Antiviral Research, 2020, 174, 104677.	4.1	11
96	Identification of Inhibitors for a Virally Encoded Protein Kinase by 2 Different Screening Systems: In Vitro Kinase Assay and In-Cell Activity Assay. Journal of Biomolecular Screening, 2005, 10, 36-45.	2.6	10
97	Exploring the Human Cytomegalovirus Core Nuclear Egress Complex as a Novel Antiviral Target: A New Type of Small Molecule Inhibitors. Viruses, 2021, 13, 471.	3 <b>.</b> 3	10
98	The peptidyl-prolyl cis/trans isomerase Pin1 interacts with three early regulatory proteins of human cytomegalovirus. Virus Research, 2020, 285, 198023.	2.2	9
99	Dynamic regulatory interaction between cytomegalovirus major tegument protein pp65 and protein kinase pUL97 in intracellular compartments, dense bodies and virions. Journal of General Virology, 2017, 98, 2850-2863.	2.9	8
100	The crystal structure of the varicella-zoster Orf24-Orf27 nuclear egress complex spotlights multiple determinants of herpesvirus subfamily specificity. Journal of Biological Chemistry, 2022, 298, 101625.	3.4	8
101	Therapeutics to prevent congenital cytomegalovirus during pregnancy: what is available now and in the future?. Microbiology Australia, 2015, 36, 156.	0.4	7
102	Phosphosite Analysis of the Cytomegaloviral mRNA Export Factor pUL69 Reveals Serines with Critical Importance for Recruitment of Cellular Proteins Pin1 and UAP56/URH49. Journal of Virology, 2020, 94, .	3.4	7
103	Functional Relevance of the Interaction between Human Cyclins and the Cytomegalovirus-Encoded CDK-Like Protein Kinase pUL97. Viruses, 2021, 13, 1248.	3.3	7
104	Methodological Development of a Multi-Readout Assay for the Assessment of Antiviral Drugs against SARS-CoV-2. Pathogens, 2021, 10, 1076.	2.8	7
105	Come together'—The Regulatory Interaction of Herpesviral Nuclear Egress Proteins Comprises Both Essential and Accessory Functions. Cells, 2022, 11, 1837.	4.1	7
106	The Artemisinin-Derived Autofluorescent Compound BG95 Exerts Strong Anticytomegaloviral Activity Based on a Mitochondrial Targeting Mechanism. International Journal of Molecular Sciences, 2020, 21, 5578.	4.1	6
107	Differential upregulation of host cell protein kinases by the replication of $\hat{l}\pm$ , $\hat{l}^2$ - and $\hat{l}^3$ -herpesviruses provides a signature of virus-specific signalling. Journal of General Virology, 2020, 101, 284-289.	2.9	6
108	The Complex Regulatory Role of Cytomegalovirus Nuclear Egress Protein pUL50 in the Production of Infectious Virus. Cells, 2021, 10, 3119.	4.1	6

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109	Human Cytomegalovirus Nuclear Egress Proteins Ectopically Expressed in the Heterologous Environment of Plant Cells are Strictly Targeted to the Nuclear Envelope. Viruses, 2016, 8, 73.	3.3	5
110	Deeper Insight into the Sixâ€Step Domino Reaction of Aldehydes with Malononitrile and Evaluation of Antiviral and Antimalarial Activities of the Obtained Bicyclic Products. ChemistryOpen, 2017, 6, 364-374.	1.9	5
111	Human cytomegaloviral multifunctional protein kinase pUL97 impairs zebrafish embryonic development and increases mortality. Scientific Reports, 2019, 9, 7219.	3.3	5
112	The Oligomeric Assemblies of Cytomegalovirus Core Nuclear Egress Proteins Are Associated with Host Kinases and Show Sensitivity to Antiviral Kinase Inhibitors. Viruses, 2022, 14, 1021.	3.3	5
113	Methodological Development of a Multi-Readout Assay for the Assessment of Antiviral Drugs against SARS-CoV-2. Pathogens, 2021, 10, .	2.8	3
114	Using multi-channel level sets to measure the cytoplasmic localization of HCMV pUL97 in GFP-B-gal fusion constructs. Journal of Virological Methods, 2014, 199, 61-67.	2.1	2
115	Patient-Derived Cytomegaloviruses with Different Ganciclovir Sensitivities from UL97 Mutation Retain Their Replication Efficiency and Some Kinase Activity In Vitro. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	1
116	Recent developments in anti-herpesviral therapy based on protein kinase inhibitors., 2006,, 351-371.		1