

Evolutionary enhancement of Zika virus infectivity in A

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Zika in the Americas, year 2: What have we learned? What gaps remain? A report from the Global Virus Network. <i>Antiviral Research</i> , 2017, 144, 223-246.	1.9	104
2	Zika is on point to increase spread. <i>Nature Reviews Microbiology</i> , 2017, 15, 381-381.	13.6	0
3	A Single Substitution Changes Zika Virus Infectivity in Mosquitoes. <i>Trends in Microbiology</i> , 2017, 25, 603-605.	3.5	2
4	The Diversification of Zika Virus: Are There Two Distinct Lineages?. <i>Genome Biology and Evolution</i> , 2017, 9, 2940-2945.	1.1	26
5	Blood meal acquisition enhances arbovirus replication in mosquitoes through activation of the GABAergic system. <i>Nature Communications</i> , 2017, 8, 1262.	5.8	45
6	A single mutation in the prM protein of Zika virus contributes to fetal microcephaly. <i>Science</i> , 2017, 358, 933-936.	6.0	399
7	Zika Virus: Immune Evasion Mechanisms, Currently Available Therapeutic Regimens, and Vaccines. <i>Viral Immunology</i> , 2017, 30, 682-690.	0.6	17
8	Zika virus: what, where from and where to?. <i>Pathology</i> , 2017, 49, 698-706.	0.3	20
9	ZIKA virus isolated from mosquitoes: a field and laboratory investigation in China, 2016. <i>Science China Life Sciences</i> , 2017, 60, 1364-1371.	2.3	39
10	Zika Virus Encoding Nonglycosylated Envelope Protein Is Attenuated and Defective in Neuroinvasion. <i>Journal of Virology</i> , 2017, 91, .	1.5	88
11	The missing pieces: Lack of Zika data from Africa complicates search for answers. <i>Nature Medicine</i> , 2017, 23, 904-906.	15.2	10
12	Organoid culture systems to study host-pathogen interactions. <i>Current Opinion in Immunology</i> , 2017, 48, 15-22.	2.4	131
13	Phylodynamics of Yellow Fever Virus in the Americas: new insights into the origin of the 2017 Brazilian outbreak. <i>Scientific Reports</i> , 2017, 7, 7385.	1.6	71
14	Ribosomal stress and Tp53-mediated neuronal apoptosis in response to capsid protein of the Zika virus. <i>Scientific Reports</i> , 2017, 7, 16652.	1.6	45
15	Zika virus infection of first-trimester human placentas: utility of an explant model of replication to evaluate correlates of immune protection ex vivo. <i>Current Opinion in Virology</i> , 2017, 27, 48-56.	2.6	21
16	Intranasal infection and contact transmission of Zika virus in guinea pigs. <i>Nature Communications</i> , 2017, 8, 1648.	5.8	47
17	A Zika Vaccine Targeting NS1 Protein Protects Immunocompetent Adult Mice in a Lethal Challenge Model. <i>Scientific Reports</i> , 2017, 7, 14769.	1.6	102
18	Pandemic Zika: A Formidable Challenge to Medicine and Public Health. <i>Journal of Infectious Diseases</i> , 2017, 216, S857-S859.	1.9	15

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19	Zika virus transmission in Angola and the potential for further spread to other African settings. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2017, 111, 527-529.	0.7	23
20	History and Emergence of Zika Virus. <i>Journal of Infectious Diseases</i> , 2017, 216, S860-S867.	1.9	112
21	Pathogen genomic surveillance elucidates the origins, transmission and evolution of emerging viral agents in China. <i>Science China Life Sciences</i> , 2017, 60, 1317-1330.	2.3	10
22	Tracing the origin of the NS1 A188V substitution responsible for recent enhancement of Zika virus Asian genotype infectivity. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2017, 112, 793-795.	0.8	24
23	Zika Virus Exhibits Lineage-Specific Phenotypes in Cell Culture, in <i>Aedes aegypti</i> Mosquitoes, and in an Embryo Model. <i>Viruses</i> , 2017, 9, 383.	1.5	46
24	Differential virulence between Asian and African lineages of Zika virus. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005821.	1.3	104
25	Zika virus congenital syndrome: experimental models and clinical aspects. <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , 2017, 23, 41.	0.8	18
26	Sunspot Cycle Minima and Pandemics: The Case for Vigilance?. <i>Journal of Astrobiology & Outreach</i> , 2017, 05, .	0.1	1
27	N-glycosylation of Viral E Protein Is the Determinant for Vector Midgut Invasion by Flaviviruses. <i>MBio</i> , 2018, 9, .	1.8	43
28	An overview of mosquito vectors of Zika virus. <i>Microbes and Infection</i> , 2018, 20, 646-660.	1.0	124
29	Genomic Insights into Zika Virus Emergence and Spread. <i>Cell</i> , 2018, 172, 1160-1162.	13.5	56
30	Salivary factor LTRIN from <i>Aedes aegypti</i> facilitates the transmission of Zika virus by interfering with the lymphotoxin-1 ² receptor. <i>Nature Immunology</i> , 2018, 19, 342-353.	7.0	81
31	Did ZIKV evolve to be more dangerous? A new clue towards neurovirulence. <i>National Science Review</i> , 2018, 5, 121-122.	4.6	1
32	Zika virus infection in the returning traveller: what every neurologist should know. <i>Practical Neurology</i> , 2018, 18, 271-277.	0.5	25
33	Zika Virus Replicates in Proliferating Cells in Explants From First-Trimester Human Placentas, Potential Sites for Dissemination of Infection. <i>Journal of Infectious Diseases</i> , 2018, 217, 1202-1213.	1.9	69
34	Mapping the Evolutionary Potential of RNA Viruses. <i>Cell Host and Microbe</i> , 2018, 23, 435-446.	5.1	76
35	Development of a chimeric Zika vaccine using a licensed live-attenuated flavivirus vaccine as backbone. <i>Nature Communications</i> , 2018, 9, 673.	5.8	84
36	An evolutionary NS1 mutation enhances Zika virus evasion of host interferon induction. <i>Nature Communications</i> , 2018, 9, 414.	5.8	231

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37	Potential Mechanisms for Enhanced Zika Epidemic and Disease. <i>ACS Infectious Diseases</i> , 2018, 4, 656-659.	1.8	9
38	How Do Virus-Mosquito Interactions Lead to Viral Emergence?. <i>Trends in Parasitology</i> , 2018, 34, 310-321.	1.5	80
39	Recombinant Chimpanzee Adenovirus Vaccine AdC7-M/E Protects against Zika Virus Infection and Testis Damage. <i>Journal of Virology</i> , 2018, 92, .	1.5	72
40	A vaccinia-based single-vector construct multi-pathogen vaccine protects against both Zika and chikungunya viruses. <i>Nature Communications</i> , 2018, 9, 1230.	5.8	71
41	Zika virus in Thailand. <i>Microbes and Infection</i> , 2018, 20, 670-675.	1.0	21
42	Rapid response to an emerging infectious disease - Lessons learned from development of a synthetic DNA vaccine targeting Zika virus. <i>Microbes and Infection</i> , 2018, 20, 676-684.	1.0	25
43	Mosquito-borne and sexual transmission of Zika virus: Recent developments and future directions. <i>Virus Research</i> , 2018, 254, 1-9.	1.1	33
44	Modeling neuro-immune interactions during Zika virus infection. <i>Human Molecular Genetics</i> , 2018, 27, 41-52.	1.4	50
45	Zika virus: The transboundary pathogen from mosquito and updates. <i>Microbial Pathogenesis</i> , 2018, 114, 476-482.	1.3	7
46	Contemporary Zika Virus Isolates Induce More dsRNA and Produce More Negative-Strand Intermediate in Human Astrocytoma Cells. <i>Viruses</i> , 2018, 10, 728.	1.5	16
47	Zika Virus Infection Produces a Reduction on <i>Aedes aegypti</i> Lifespan but No Effects on Mosquito Fecundity and Oviposition Success. <i>Frontiers in Microbiology</i> , 2018, 9, 3011.	1.5	23
48	Possible pathogenicity of Japanese encephalitis virus in newly hatched domestic ducklings. <i>Veterinary Microbiology</i> , 2018, 227, 8-11.	0.8	23
49	Integrative Analysis of Zika Virus Genome RNA Structure Reveals Critical Determinants of Viral Infectivity. <i>Cell Host and Microbe</i> , 2018, 24, 875-886.e5.	5.1	89
51	Zika Virus and Neurologic Disease. <i>Neurologic Clinics</i> , 2018, 36, 767-787.	0.8	13
52	The Unique Phylogenetic Position of a Novel Tick-Borne Phlebovirus Ensures an Ixodid Origin of the Genus <i>Phlebovirus</i> . <i>MSphere</i> , 2018, 3, .	1.3	36
53	Fetal Brain Infection Is Not a Unique Characteristic of Brazilian Zika Viruses. <i>Viruses</i> , 2018, 10, 541.	1.5	15
54	Assay Challenges for Emerging Infectious Diseases: The Zika Experience. <i>Vaccines</i> , 2018, 6, 70.	2.1	4
55	A Single-Dose Live-Attenuated Zika Virus Vaccine with Controlled Infection Rounds that Protects against Vertical Transmission. <i>Cell Host and Microbe</i> , 2018, 24, 487-499.e5.	5.1	46

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56	The phylogenomics of evolving virus virulence. <i>Nature Reviews Genetics</i> , 2018, 19, 756-769.	7.7	152
57	Deconvolution of pro- and antiviral genomic responses in Zika virus-infected and bystander macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9172-E9181.	3.3	44
58	Improved Immune Responses Against Zika Virus After Sequential Dengue and Zika Virus Infection in Humans. <i>Viruses</i> , 2018, 10, 480.	1.5	25
59	In silico approaches to Zika virus drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2018, 13, 825-835.	2.5	9
60	The emergence of Zika virus and its new clinical syndromes. <i>Nature</i> , 2018, 560, 573-581.	13.7	303
61	Secretion of Nonstructural Protein 1 of Dengue Virus from Infected Mosquito Cells: Facts and Speculations. <i>Journal of Virology</i> , 2018, 92, .	1.5	19
62	Vector competence of <i>Aedes aegypti</i> , <i>Culex tarsalis</i> , and <i>Culex quinquefasciatus</i> from California for Zika virus. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006524.	1.3	45
63	Establishment of a mouse model for the complete mosquito-mediated transmission cycle of Zika virus. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006417.	1.3	19
64	Untold stories of the Zika virus epidemic in Brazil. <i>Reviews in Medical Virology</i> , 2018, 28, e2000.	3.9	4
65	Congenital Viral Infection: Traversing the Uterine-Placental Interface. <i>Annual Review of Virology</i> , 2018, 5, 273-299.	3.0	121
66	Incorporation of NS1 and prM/M are important to confer effective protection of adenovirus-vectored Zika virus vaccine carrying E protein. <i>Npj Vaccines</i> , 2018, 3, 29.	2.9	38
67	Monitoring and redirecting virus evolution. <i>PLoS Pathogens</i> , 2018, 14, e1006979.	2.1	13
68	Evolution of Two Major Zika Virus Lineages: Implications for Pathology, Immune Response, and Vaccine Development. <i>Frontiers in Immunology</i> , 2018, 9, 1640.	2.2	86
69	Lethal Zika Virus Disease Models in Young and Older Interferon $\hat{1}\pm/\hat{1}^2$ Receptor Knock Out Mice. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 117.	1.8	21
70	Complete Genome Characterization of the 2017 Dengue Outbreak in Xishuangbanna, a Border City of China, Burma and Laos. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 148.	1.8	17
71	Viral Determinants and Vector Competence of Zika Virus Transmission. <i>Frontiers in Microbiology</i> , 2018, 9, 1040.	1.5	20
72	Negligible contribution of M2634V substitution to ZIKV pathogenesis in AG6 mice revealed by a bacterial promoter activity reduced infectious clone. <i>Scientific Reports</i> , 2018, 8, 10491.	1.6	24
73	Molecular Responses to the Zika Virus in Mosquitoes. <i>Pathogens</i> , 2018, 7, 49.	1.2	13

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74	Higher Cytopathic Effects of a Zika Virus Brazilian Isolate from Bahia Compared to a Canadian-Imported Thai Strain. <i>Viruses</i> , 2018, 10, 53.	1.5	29
75	Probing Molecular Insights into Zika Virus's Host Interactions. <i>Viruses</i> , 2018, 10, 233.	1.5	64
76	Immune Responses to Dengue and Zika Viruses' Guidance for T Cell Vaccine Development. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 385.	1.2	11
77	African and Asian strains of Zika virus differ in their ability to infect and lyse primitive human placental trophoblast. <i>PLoS ONE</i> , 2018, 13, e0200086.	1.1	58
78	Potential targets for therapeutic intervention and structure based vaccine design against Zika virus. <i>European Journal of Medicinal Chemistry</i> , 2018, 156, 444-460.	2.6	16
79	Crystal structure of a novel Kunitz type inhibitor, alocasin with anti- <i>Aedes aegypti</i> activity targeting midgut proteases. <i>Pest Management Science</i> , 2018, 74, 2761-2772.	1.7	8
80	Re-visiting the evolution, dispersal and epidemiology of Zika virus in Asia. <i>Emerging Microbes and Infections</i> , 2018, 7, 1-8.	3.0	39
81	Maternal immunization with a DNA vaccine candidate elicits specific passive protection against post-natal Zika virus infection in immunocompetent BALB/c mice. <i>Vaccine</i> , 2018, 36, 3522-3532.	1.7	29
82	Why is congenital Zika syndrome asymmetrically distributed among human populations?. <i>PLoS Biology</i> , 2018, 16, e2006592.	2.6	32
83	Did Zika Virus Mutate to Cause Severe Outbreaks?. <i>Trends in Microbiology</i> , 2018, 26, 877-885.	3.5	43
84	Species-specific disruption of STING-dependent antiviral cellular defenses by the Zika virus NS2B3 protease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6310-E6318.	3.3	137
85	NS2B/NS3 mutations enhance the infectivity of genotype I Japanese encephalitis virus in amplifying hosts. <i>PLoS Pathogens</i> , 2019, 15, e1007992.	2.1	16
86	Attenuation of Zika Virus by Passage in Human HeLa Cells. <i>Vaccines</i> , 2019, 7, 93.	2.1	10
87	The native European <i>Aedes geniculatus</i> mosquito species can transmit chikungunya virus. <i>Emerging Microbes and Infections</i> , 2019, 8, 962-972.	3.0	14
88	Rapid identification of human-infecting viruses. <i>Transboundary and Emerging Diseases</i> , 2019, 66, 2517-2522.	1.3	31
89	Low seroprevalence rates of Zika virus in Kuala Lumpur, Malaysia. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2019, 113, 678-684.	0.7	8
90	Spread of two Zika virus lineages in Midwest Brazil. <i>Infection, Genetics and Evolution</i> , 2019, 75, 103974.	1.0	4
91	The African strain of Zika virus causes more severe <i>in utero</i> infection than Asian strain in a porcine fetal transmission model. <i>Emerging Microbes and Infections</i> , 2019, 8, 1098-1107.	3.0	49

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92	Inter- and intra-lineage genetic diversity of wild-type Zika viruses reveals both common and distinctive nucleotide variants and clusters of genomic diversity. <i>Emerging Microbes and Infections</i> , 2019, 8, 1126-1138.	3.0	20
93	A T164S mutation in the dengue virus NS1 protein is associated with greater disease severity in mice. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	32
94	Growth of Zika virus in human reconstituted respiratory, intestinal, vaginal and neural tissues. <i>Clinical Microbiology and Infection</i> , 2019, 25, 1042.e1-1042.e4.	2.8	8
95	Mosquito vectors of arboviruses in French Polynesia. <i>New Microbes and New Infections</i> , 2019, 31, 100569.	0.8	11
96	Zika Virus Infection “ After the Pandemic. <i>New England Journal of Medicine</i> , 2019, 381, 1444-1457.	13.9	369
97	Progress towards Understanding the Mosquito-Borne Virus Life Cycle. <i>Trends in Parasitology</i> , 2019, 35, 1009-1017.	1.5	21
98	An Antiviral Peptide from <i>Alopecosa nagpag</i> Spider Targets NS2/NS3 Protease of Flaviviruses. <i>Toxins</i> , 2019, 11, 584.	1.5	22
99	Nonindigenous case of Asian Zika virus lineage in Yunnan, China, 2019. <i>Journal of Infection</i> , 2019, 79, 612-625.	1.7	9
101	Genetic stability of live-attenuated Zika vaccine candidates. <i>Antiviral Research</i> , 2019, 171, 104596.	1.9	6
102	Host serum iron modulates dengue virus acquisition by mosquitoes. <i>Nature Microbiology</i> , 2019, 4, 2405-2415.	5.9	49
103	High correlation between Zika virus NS1 antibodies and neutralizing antibodies in selected serum samples from normal healthy Thais. <i>Scientific Reports</i> , 2019, 9, 13498.	1.6	8
104	Vector Competence: What Has Zika Virus Taught Us?. <i>Viruses</i> , 2019, 11, 867.	1.5	45
105	Zika Virus Dependence on Host Hsp70 Provides a Protective Strategy against Infection and Disease. <i>Cell Reports</i> , 2019, 26, 906-920.e3.	2.9	81
106	Zika virus outbreak in Rajasthan, India in 2018 was caused by a virus endemic to Asia. <i>Infection, Genetics and Evolution</i> , 2019, 69, 199-202.	1.0	45
107	Molecular characterization of the viral structural gene of the first dengue virus type 1 outbreak in Xishuangbanna: A border area of China, Burma and Laos. <i>International Journal of Infectious Diseases</i> , 2019, 79, 152-161.	1.5	12
108	The Asian Lineage of Zika Virus: Transmission and Evolution in Asia and the Americas. <i>Virologica Sinica</i> , 2019, 34, 1-8.	1.2	30
109	Flavivirus NS1 Triggers Tissue-Specific Vascular Endothelial Dysfunction Reflecting Disease Tropism. <i>Cell Reports</i> , 2019, 26, 1598-1613.e8.	2.9	192
110	A “Furry-Tale” of Zika Virus Infection: What Have We Learned from Animal Models?. <i>Viruses</i> , 2019, 11, 29.	1.5	20

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111	Increased growth ability and pathogenicity of American- and Pacific-subtype Zika virus (ZIKV) strains compared with a Southeast Asian-subtype ZIKV strain. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007387.	1.3	16
112	Convalescent patient-derived monoclonal antibodies targeting different epitopes of E protein confer protection against Zika virus in a neonatal mouse model. <i>Emerging Microbes and Infections</i> , 2019, 8, 749-759.	3.0	26
113	Zika virus: Molecular responses and tissue tropism in the mammalian host. <i>Reviews in Medical Virology</i> , 2019, 29, e2050.	3.9	8
114	Comparative Analysis of African and Asian Lineage-Derived Zika Virus Strains Reveals Differences in Activation of and Sensitivity to Antiviral Innate Immunity. <i>Journal of Virology</i> , 2019, 93, .	1.5	51
115	Late Neurological Consequences of Zika Virus Infection: Risk Factors and Pharmaceutical Approaches. <i>Pharmaceuticals</i> , 2019, 12, 60.	1.7	35
116	Zika virus in Vietnam, Laos, and Cambodia: are there health risks for travelers?. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2019, 38, 1585-1590.	1.3	7
117	Zika Virus Potentiates the Development of Neurological Defects and Microcephaly: Challenges and Control Strategies. <i>Frontiers in Neurology</i> , 2019, 10, 319.	1.1	9
118	<i>Aedes</i> mosquitoes acquire and transmit Zika virus by breeding in contaminated aquatic environments. <i>Nature Communications</i> , 2019, 10, 1324.	5.8	41
119	An Itchy Problem. , 2019, , 288-293.		0
120	The role of co-infection and swarm dynamics in arbovirus transmission. <i>Virus Research</i> , 2019, 265, 88-93.	1.1	18
121	Multiplex targeted mass spectrometry assay for one-shot flavivirus diagnosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6754-6759.	3.3	18
122	Vector-borne transmission and evolution of Zika virus. <i>Nature Ecology and Evolution</i> , 2019, 3, 561-569.	3.4	96
123	Atovaquone Inhibits Arbovirus Replication through the Depletion of Intracellular Nucleotides. <i>Journal of Virology</i> , 2019, 93, .	1.5	33
124	Arbovirus lifecycle in mosquito: acquisition, propagation and transmission. <i>Expert Reviews in Molecular Medicine</i> , 2019, 21, e1.	1.6	38
125	Antibodies Elicited by an NS1-Based Vaccine Protect Mice against Zika Virus. <i>MBio</i> , 2019, 10, .	1.8	57
126	Intrahost Selection Pressure Drives Equine Arteritis Virus Evolution during Persistent Infection in the Stallion Reproductive Tract. <i>Journal of Virology</i> , 2019, 93, .	1.5	6
127	Envelope Protein Glycosylation Mediates Zika Virus Pathogenesis. <i>Journal of Virology</i> , 2019, 93, .	1.5	89
128	<i>Beauveria bassiana</i> infection reduces the vectorial capacity of <i>Aedes albopictus</i> for the Zika virus. <i>Journal of Pest Science</i> , 2019, 92, 781-789.	1.9	25

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129	Genetic Determinants of the Re-Emergence of Arboviral Diseases. <i>Viruses</i> , 2019, 11, 150.	1.5	26
130	Viral pathogens hitchhike with insect sperm for paternal transmission. <i>Nature Communications</i> , 2019, 10, 955.	5.8	33
131	Natural vertical infection by dengue virus serotype 4, Zika virus and Mayaro virus in <i>Aedes</i> (<i>Stegomyia</i>) <i>aegypti</i> and <i>Aedes</i> (<i>Stegomyia</i>) <i>albopictus</i> . <i>Medical and Veterinary Entomology</i> , 2019, 33, 437-442.	0.7	33
132	Spatial and Temporal Analyses of the Spread of Zika Virus Worldwide. , 2019, , .		1
133	A natural polymorphism in Zika virus NS2A protein responsible of virulence in mice. <i>Scientific Reports</i> , 2019, 9, 19968.	1.6	23
135	Multiscale analysis for patterns of Zika virus genotype emergence, spread, and consequence. <i>PLoS ONE</i> , 2019, 14, e0225699.	1.1	12
136	Genome-wide approaches to unravelling host-virus interactions in Dengue and Zika infections. <i>Current Opinion in Virology</i> , 2019, 34, 29-38.	2.6	6
137	Molecular epidemiology of dengue, yellow fever, Zika and Chikungunya arboviruses: An update. <i>Acta Tropica</i> , 2019, 190, 99-111.	0.9	52
138	Proteomic analysis of monkey kidney LLC-MK2 cells infected with a Thai strain Zika virus. <i>Archives of Virology</i> , 2019, 164, 725-737.	0.9	7
139	The evolution of Zika virus from Asia to the Americas. <i>Nature Reviews Microbiology</i> , 2019, 17, 131-139.	13.6	103
140	Zika Virus Vaccine Development: Progress in the Face of New Challenges. <i>Annual Review of Medicine</i> , 2019, 70, 121-135.	5.0	76
141	A Biomimetic Nanodecoy Traps Zika Virus To Prevent Viral Infection and Fetal Microcephaly Development. <i>Nano Letters</i> , 2019, 19, 2215-2222.	4.5	69
142	A potent prolyl tRNA synthetase inhibitor antagonizes Chikungunya and Dengue viruses. <i>Antiviral Research</i> , 2019, 161, 163-168.	1.9	18
143	Drugs for the Treatment of Zika Virus Infection. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 470-489.	2.9	63
144	Differences in the Transmission of Dengue Fever by Different Serotypes of Dengue Virus. <i>Vector-Borne and Zoonotic Diseases</i> , 2020, 20, 143-150.	0.6	9
145	Genetic Diversity of Collaborative Cross Mice Controls Viral Replication, Clinical Severity, and Brain Pathology Induced by Zika Virus Infection, Independently of <i>Oas1b</i> . <i>Journal of Virology</i> , 2020, 94, .	1.5	32
146	Immune Evasion Strategies Used by Zika Virus to Infect the Fetal Eye and Brain. <i>Viral Immunology</i> , 2020, 33, 22-37.	0.6	16
147	Sequencing of ZIKV genomes directly from <i>Ae. aegypti</i> and <i>Cx. quinquefasciatus</i> mosquitoes collected during the 2015-16 epidemics in Recife. <i>Infection, Genetics and Evolution</i> , 2020, 80, 104180.	1.0	4

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148	Increased temperatures reduce the vectorial capacity of <i>Aedes</i> mosquitoes for Zika virus. <i>Emerging Microbes and Infections</i> , 2020, 9, 67-77.	3.0	37
149	Patterns, Drivers, and Challenges of Vector-Borne Disease Emergence. <i>Vector-Borne and Zoonotic Diseases</i> , 2020, 20, 159-170.	0.6	74
150	Zika Says No Dice to Dicer. <i>Cell Stem Cell</i> , 2020, 27, 503-504.	5.2	1
151	Antibodies targeting epitopes on the cell-surface form of NS1 protect against Zika virus infection during pregnancy. <i>Nature Communications</i> , 2020, 11, 5278.	5.8	30
152	A materials-science perspective on tackling COVID-19. <i>Nature Reviews Materials</i> , 2020, 5, 847-860.	23.3	228
153	Enhanced Zika virus susceptibility of globally invasive <i>Aedes aegypti</i> populations. <i>Science</i> , 2020, 370, 991-996.	6.0	61
154	Single Amino Acid Mutations Affect Zika Virus Replication In Vitro and Virulence In Vivo. <i>Viruses</i> , 2020, 12, 1295.	1.5	11
155	Biological Characteristics and Patterns of Codon Usage Evolution for the African Genotype Zika Virus. <i>Viruses</i> , 2020, 12, 1306.	1.5	2
156	Migration of Disease. , 2020, , 96-130.		0
157	The Zika Virus Capsid Disrupts Corticogenesis by Suppressing Dicer Activity and miRNA Biogenesis. <i>Cell Stem Cell</i> , 2020, 27, 618-632.e9.	5.2	48
158	Snake Cathelicidin Derived Peptide Inhibits Zika Virus Infection. <i>Frontiers in Microbiology</i> , 2020, 11, 1871.	1.5	16
159	Susceptibility and interactions between <i>Aedes</i> mosquitoes and Zika viruses. <i>Insect Science</i> , 2020, 28, 1439-1451.	1.5	7
160	A Zika virus envelope mutation preceding the 2015 epidemic enhances virulence and fitness for transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20190-20197.	3.3	53
161	Differential gene expression elicited by ZIKV infection in trophoblasts from congenital Zika syndrome discordant twins. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008424.	1.3	18
162	Disulfide Reduction Allosterically Destabilizes the β^2 -Ladder Subdomain Assembly within the NS1 Dimer of ZIKV. <i>Biophysical Journal</i> , 2020, 119, 1525-1537.	0.2	7
163	Teratogen update: Zika virus and pregnancy. <i>Birth Defects Research</i> , 2020, 112, 1139-1149.	0.8	23
164	Label-Free Electrochemical Biosensors for the Determination of Flaviviruses: Dengue, Zika, and Japanese Encephalitis. <i>Sensors</i> , 2020, 20, 4600.	2.1	27
165	Differential Frequencies of <i>HLA-DRB1</i> , <i>DQA1</i> , and <i>DQB1</i> Alleles and Haplotypes Are Observed in the Arbovirus-Related Neurological Syndromes. <i>Journal of Infectious Diseases</i> , 2021, 224, 517-525.	1.9	2

#	ARTICLE	IF	CITATIONS
166	Low <i>Aedes aegypti</i> Vector Competence for Zika Virus from Viremic Rhesus Macaques. <i>Viruses</i> , 2020, 12, 1345.	1.5	1
167	The continued threat of emerging flaviviruses. <i>Nature Microbiology</i> , 2020, 5, 796-812.	5.9	520
168	Zika structural genes determine the virulence of African and Asian lineages. <i>Emerging Microbes and Infections</i> , 2020, 9, 1023-1033.	3.0	11
169	Emergence of Zika virus infection in China. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008300.	1.3	12
170	Comparative analysis of a Thai congenital-Zika-syndrome-associated virus with a Thai Zika-fever-associated virus. <i>Archives of Virology</i> , 2020, 165, 1791-1801.	0.9	6
171	Experimental Infection of Newly Hatched Domestic Ducklings via Japanese Encephalitis Virus-Infected Mosquitoes. <i>Pathogens</i> , 2020, 9, 371.	1.2	11
172	Reverse genetic approaches for the development of Zika vaccines and therapeutics. <i>Current Opinion in Virology</i> , 2020, 44, 7-15.	2.6	3
173	One-step RT-qPCR assay for ZIKV RNA detection in <i>Aedes aegypti</i> samples: a protocol to study infection and gene expression during ZIKV infection. <i>Parasites and Vectors</i> , 2020, 13, 128.	1.0	8
174	Zika virus NS1 affects the junctional integrity of human brain microvascular endothelial cells. <i>Biochimie</i> , 2020, 176, 52-61.	1.3	27
175	Ultrasensitive Visualization of Virus via Explosive Catalysis of an Enzyme Muster Triggering Gold Nano-aggregate Disassembly. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12525-12532.	4.0	14
176	Application of MCMC-Based Bayesian Modeling for Genetic Evolutionary and Dynamic Change Analysis of Zika Virus. <i>Frontiers in Genetics</i> , 2019, 10, 1319.	1.1	1
177	Current Efforts in the Development of Vaccines for the Prevention of Zika and Chikungunya Virus Infections. <i>Frontiers in Immunology</i> , 2020, 11, 592.	2.2	34
178	Defeat Dengue and Zika Viruses With a One-Two Punch of Vaccine and Vector Blockade. <i>Frontiers in Microbiology</i> , 2020, 11, 362.	1.5	9
179	Modeling the competitive diffusions of rumor and knowledge and the impacts on epidemic spreading. <i>Applied Mathematics and Computation</i> , 2021, 388, 125536.	1.4	44
180	ZIKV viral proteins and their roles in virus-host interactions. <i>Science China Life Sciences</i> , 2021, 64, 709-719.	2.3	10
181	Biologically modified nanoparticles as theranostic bionanomaterials. <i>Progress in Materials Science</i> , 2021, 118, 100768.	16.0	108
182	Role of mutational reversions and fitness restoration in Zika virus spread to the Americas. <i>Nature Communications</i> , 2021, 12, 595.	5.8	29
183	Clustered rapid induction of apoptosis limits ZIKV and DENV-2 proliferation in the midguts of <i>Aedes aegypti</i> . <i>Communications Biology</i> , 2021, 4, 69.	2.0	14

#	ARTICLE	IF	CITATIONS
184	Alternation between taxonomically divergent hosts is not the major determinant of flavivirus evolution. <i>Virus Evolution</i> , 2021, 7, veab040.	2.2	0
185	Monoclonal Antibodies against Zika Virus NS1 Protein Confer Protection via FcγR3 Receptor-Dependent and -Independent Pathways. <i>MBio</i> , 2021, 12, .	1.8	17
186	The Key Role of Nucleic Acid Vaccines for One Health. <i>Viruses</i> , 2021, 13, 258.	1.5	19
188	Functional alterations caused by mutations reflect evolutionary trends of SARS-CoV-2. <i>Briefings in Bioinformatics</i> , 2021, 22, 1442-1450.	3.2	32
189	The type of blood used to feed <i>Aedes aegypti</i> females affects their cuticular and internal free fatty acid (FFA) profiles. <i>PLoS ONE</i> , 2021, 16, e0251100.	1.1	11
191	Juvenile Hormone-Sensitive Ribosomal Activity Enhances Viral Replication in <i>Aedes aegypti</i> . <i>MSystems</i> , 2021, 6, e0119020.	1.7	10
192	Contributions of Genetic Evolution to Zika Virus Emergence. <i>Frontiers in Microbiology</i> , 2021, 12, 655065.	1.5	7
193	Causes of Phenotypic Variability and Disabilities after Prenatal Viral Infections. <i>Tropical Medicine and Infectious Disease</i> , 2021, 6, 95.	0.9	2
194	A Live-Attenuated Zika Virus Vaccine with High Production Capacity Confers Effective Protection in Neonatal Mice. <i>Journal of Virology</i> , 2021, 95, e0038321.	1.5	5
195	Immunopathogenesis of Different Emerging Viral Infections: Evasion, Fatal Mechanism, and Prevention. <i>Frontiers in Immunology</i> , 2021, 12, 690976.	2.2	4
196	Exosomes mediate horizontal transmission of viral pathogens from insect vectors to plant phloem. <i>ELife</i> , 2021, 10, .	2.8	16
197	A selective sweep in the Spike gene has driven SARS-CoV-2 human adaptation. <i>Cell</i> , 2021, 184, 4392-4400.e4.	13.5	69
198	Zika Virus Infection of Pregnant <i>lfnar1</i> ^Δ Mice Triggers Strain-Specific Differences in Fetal Outcomes. <i>Journal of Virology</i> , 2021, 95, e0081821.	1.5	6
199	Structural basis of UDP-N-acetylglucosamine pyrophosphorylase and identification of promising terpenes to control <i>Aedes aegypti</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 204, 111820.	2.5	4
200	Identification of Rab family genes and functional analyses of <i>LmRab5</i> and <i>LmRab11A</i> in the development and RNA interference of <i>Locusta migratoria</i> . <i>Insect Science</i> , 2022, 29, 320-332.	1.5	4
201	Non-structural protein 1 from Zika virus: Heterologous expression, purification, and potential for diagnosis of Zika infections. <i>International Journal of Biological Macromolecules</i> , 2021, 186, 984-993.	3.6	2
202	Interaction of Viruses with the Insect Intestine. <i>Annual Review of Virology</i> , 2021, 8, 115-131.	3.0	26
204	Experimental Evolution of West Nile Virus at Higher Temperatures Facilitates Broad Adaptation and Increased Genetic Diversity. <i>Viruses</i> , 2021, 13, 1889.	1.5	8

#	ARTICLE	IF	CITATIONS
206	Zika Virus and Neuropathogenesis: The Unanswered Question of Which Strain Is More Prone to Causing Microcephaly and Other Neurological Defects. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 695106.	1.8	7
207	Interactions of duck Tembusu virus with <i>Aedes aegypti</i> and <i>Aedes albopictus</i> mosquitoes: Vector competence and viral mutation. <i>Acta Tropica</i> , 2021, 222, 106051.	0.9	6
208	Population bottlenecks and founder effects: implications for mosquito-borne arboviral emergence. <i>Nature Reviews Microbiology</i> , 2021, 19, 184-195.	13.6	51
209	Experimental infections with Zika virus strains reveal high vector competence of <i>Aedes albopictus</i> and <i>Aedes aegypti</i> populations from Gabon (Central Africa) for the African virus lineage. <i>Emerging Microbes and Infections</i> , 2021, 10, 1244-1253.	3.0	1
210	Mapping the transmission risk of Zika virus using machine learning models. <i>Acta Tropica</i> , 2018, 185, 391-399.	0.9	45
211	Evaluation of the antiviral activity of orlistat (tetrahydropyridin) against dengue virus, Japanese encephalitis virus, Zika virus and chikungunya virus. <i>Scientific Reports</i> , 2020, 10, 1499.	1.6	38
212	Zika NS1-induced ER remodeling is essential for viral replication. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	39
213	Mapping the evolutionary landscape of Zika virus infection in immunocompromised mice. <i>Virus Evolution</i> , 2020, 6, veaa092.	2.2	9
214	Reverse genetic system, genetically stable reporter viruses and packaged subgenomic replicon based on a Brazilian Zika virus isolate. <i>Journal of General Virology</i> , 2017, 98, 2712-2724.	1.3	84
215	An amino acid change in nsP4 of chikungunya virus confers fitness advantage in human cell lines rather than in <i>Aedes albopictus</i> . <i>Journal of General Virology</i> , 2019, 100, 1541-1553.	1.3	5
221	Two Sides of a Coin: a Zika Virus Mutation Selected in Pregnant Rhesus Macaques Promotes Fetal Infection in Mice but at a Cost of Reduced Fitness in Nonpregnant Macaques and Diminished Transmissibility by Vectors. <i>Journal of Virology</i> , 2020, 94, .	1.5	10
222	Reconciling Pasteur and Darwin to control infectious diseases. <i>PLoS Biology</i> , 2018, 16, e2003815.	2.6	15
223	Altered vector competence in an experimental mosquito-mouse transmission model of Zika infection. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006350.	1.3	11
224	Reversion to ancestral Zika virus NS1 residues increases competence of <i>Aedes albopictus</i> . <i>PLoS Pathogens</i> , 2020, 16, e1008951.	2.1	9
225	Molecular characteristics and replication mechanism of dengue, zika and chikungunya arboviruses, and their treatments with natural extracts from plants: An updated review. <i>EXCLI Journal</i> , 2019, 18, 988-1006.	0.5	10
226	LAMP assays of Zika virus and other infectious agents will inevitably see expanded use due to their simplicity, sensitivity, specificity, and economy. <i>Annals of Translational Medicine</i> , 2018, 6, 196-196.	0.7	3
227	Production, Titration and Imaging of Zika Virus in Mammalian Cells. <i>Bio-protocol</i> , 2018, 8, e3115.	0.2	7
228	African and Asian Zika Virus Isolates Display Phenotypic Differences Both In Vitro and In Vivo. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018, 98, 432-444.	0.6	65

#	ARTICLE	IF	CITATIONS
229	Leu-to-Phe substitution at prM146 decreases the growth ability of Zika virus and partially reduces its pathogenicity in mice. <i>Scientific Reports</i> , 2021, 11, 19635.	1.6	6
230	A mutation-mediated evolutionary adaptation of Zika virus in mosquito and mammalian host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	19
231	Cell Membrane-Coated Mimics: A Methodological Approach for Fabrication, Characterization for Therapeutic Applications, and Challenges for Clinical Translation. <i>ACS Nano</i> , 2021, 15, 17080-17123.	7.3	73
232	Intranasal Vaccination With Recombinant Antigen-FLIPr Fusion Protein Alone Induces Long-Lasting Systemic Antibody Responses and Broad T Cell Responses. <i>Frontiers in Immunology</i> , 2021, 12, 751883.	2.2	5
240	Generation and Characterization of a Polyclonal Antibody Against NS1 Protein for Detection of Zika Virus. <i>Jundishapur Journal of Microbiology</i> , 2019, In Press, .	0.2	1
245	Current Perspective of Zika Virus and Vaccine Development. <i>Exploratory Research and Hypothesis in Medicine</i> , 2020, 000, 1-9.	0.1	1
250	Pregnancy and Zika virus. <i>Obstetrics, Gynecology and Reproduction</i> , 2020, 14, 229-238.	0.2	0
251	Dengue Virus NS1 Uses Scavenger Receptor B1 as a Cell Receptor in Cultured Cells. <i>Journal of Virology</i> , 2022, 96, JVI0166421.	1.5	17
252	A single nonsynonymous mutation on ZIKV E protein-coding sequences leads to markedly increased neurovirulence in vivo. <i>Virologica Sinica</i> , 2022, 37, 115-126.	1.2	6
254	Genome-wide diversity of Zika virus: Exploring spatio-temporal dynamics to guide a new nomenclature proposal. <i>Virus Evolution</i> , 2022, 8, veac029.	2.2	5
255	Adaptive Evolution as a Driving Force of the Emergence and Re-Emergence of Mosquito-Borne Viral Diseases. <i>Viruses</i> , 2022, 14, 435.	1.5	10
256	A Small-Plaque Isolate of the Zika Virus with Envelope Domain III Mutations Affect Viral Entry and Replication in Mammalian but Not Mosquito Cells. <i>Viruses</i> , 2022, 14, 480.	1.5	3
258	Discovering disease-causing pathogens in resource-scarce Southeast Asia using a global metagenomic pathogen monitoring system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2115285119.	3.3	25
259	Congenital Zika Syndrome: Genetic Avenues for Diagnosis and Therapy, Possible Management and Long-Term Outcomes. <i>Journal of Clinical Medicine</i> , 2022, 11, 1351.	1.0	19
260	A Zika virus mutation enhances transmission potential and confers escape from protective dengue virus immunity. <i>Cell Reports</i> , 2022, 39, 110655.	2.9	20
269	Phenotypic and Genetic Variability of Isolates of ZIKV-2016 in Brazil. <i>Microorganisms</i> , 2022, 10, 854.	1.6	0
270	The distinguishing NS5-M114V mutation in American Zika virus isolates has negligible impacts on virus replication and transmission potential. <i>PLoS Neglected Tropical Diseases</i> , 2022, 16, e0010426.	1.3	4
271	Characterization of m ⁶ A modifications in the contemporary Zika virus genome and host cellular transcripts. <i>Journal of Medical Virology</i> , 2022, 94, 4309-4318.	2.5	1

#	ARTICLE	IF	CITATIONS
272	The Role of the Flavivirus Replicase in Viral Diversity and Adaptation. <i>Viruses</i> , 2022, 14, 1076.	1.5	4
273	The Dengue Virus Nonstructural Protein 1 (NS1) Interacts with the Putative Epigenetic Regulator DIDO1 to Promote Flavivirus Replication in Mosquito Cells. <i>Journal of Virology</i> , 2022, 96, .	1.5	4
274	Zika a Vector Borne Disease Detected in Newer States of India Amidst the COVID-19 Pandemic. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	10
275	Vector competence and immune response of <i>Aedes aegypti</i> for Ebinur Lake virus, a newly classified mosquito-borne orthobunyavirus. <i>PLoS Neglected Tropical Diseases</i> , 2022, 16, e0010642.	1.3	2
276	Disease-causing human viruses: novelty and legacy. <i>Trends in Microbiology</i> , 2022, 30, 1232-1242.	3.5	5
277	Molecular adaptations during viral epidemics. <i>EMBO Reports</i> , 2022, 23, .	2.0	18
279	Analysis of Zika Virus Sequence Data Associated with a School Cohort in Haiti. <i>American Journal of Tropical Medicine and Hygiene</i> , 2022, 107, 873-880.	0.6	1
281	Gold island-enhanced multiplex quantum dots fluorescent system for biomedical analysis of circulating tumor nucleic acids. <i>Nano Select</i> , 0, , .	1.9	0
282	Trace Analysis of Emerging Virus: An Ultrasensitive ECL-Scan Imaging System for Viral Infectious Disease. <i>ACS Omega</i> , 2022, 7, 37499-37508.	1.6	1
283	Modulation of cellular machineries by Zika virus-encoded proteins. <i>Journal of Medical Virology</i> , 2023, 95, .	2.5	3
284	Pathogenicity and Structural Basis of Zika Variants with Glycan Loop Deletions in the Envelope Protein. <i>Journal of Virology</i> , 0, , .	1.5	0
285	Molecular surveillance of arboviruses circulation and co-infection during a large chikungunya virus outbreak in Thailand, October 2018 to February 2020. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
286	Zika virus as a cause of birth defects: Were the teratogenic effects of Zika virus missed for decades?. <i>Birth Defects Research</i> , 2023, 115, 265-274.	0.8	5
288	Replication in the presence of dengue convalescent serum impacts Zika virus neutralization sensitivity and fitness. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 13, .	1.8	3
289	Tissue-specific expansion of Zika virus isogenic variants drive disease pathogenesis. <i>EBioMedicine</i> , 2023, 91, 104570.	2.7	0
290	Does arbovirus emergence in humans require adaptation to domestic mosquitoes?. <i>Current Opinion in Virology</i> , 2023, 60, 101315.	2.6	4
291	Genomic and phenotypic analyses suggest moderate fitness differences among Zika virus lineages. <i>PLoS Neglected Tropical Diseases</i> , 2023, 17, e0011055.	1.3	2
292	CLEC5A mediates Zika virus-induced testicular damage. <i>Journal of Biomedical Science</i> , 2023, 30, .	2.6	2

#	ARTICLE	IF	CITATIONS
293	Immune Recognition versus Immune Evasion Systems in Zika Virus Infection. <i>Biomedicines</i> , 2023, 11, 642.	1.4	1
294	Unravelling the epidemiological diversity of Zika virus by analyzing key protein variations. <i>Archives of Virology</i> , 2023, 168, .	0.9	0
295	Mpox Virus: Its Molecular Evolution and Potential Impact on Viral Epidemiology. <i>Viruses</i> , 2023, 15, 995.	1.5	4
313	Flaviviruses including Zika virus. , 2024, , 2513-2532.		0