Roy A Hall

List of Publications by Year
in descending order

130 papers	4,940 citations	94269 37 h-index	118652 62 g-index
133 all docs	133 docs citations	133 times ranked	4598 citing authors

#	Article	IF	Citations
1	Taxonomy of the order Bunyavirales: update 2019. Archives of Virology, 2019, 164, 1949-1965.	0.9	285
2	A Single Amino Acid Substitution in the West Nile Virus Nonstructural Protein NS2A Disables Its Ability To Inhibit Alpha/Beta Interferon Induction and Attenuates Virus Virulence in Mice. Journal of Virology, 2006, 80, 2396-2404.	1.5	221
3	2020 taxonomic update for phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. Archives of Virology, 2020, 165, 3023-3072.	0.9	184
4	A New Insect-Specific Flavivirus from Northern Australia Suppresses Replication of West Nile Virus and Murray Valley Encephalitis Virus in Co-infected Mosquito Cells. PLoS ONE, 2013, 8, e56534.	1.1	183
5	Nanopatchâ€Targeted Skin Vaccination against West Nile Virus and Chikungunya Virus in Mice. Small, 2010, 6, 1776-1784.	5.2	150
6	NS1â€² of Flaviviruses in the Japanese Encephalitis Virus Serogroup Is a Product of Ribosomal Frameshifting and Plays a Role in Viral Neuroinvasiveness. Journal of Virology, 2010, 84, 1641-1647.	1.5	150
7	Characterization of Virulent West Nile Virus Kunjin Strain, Australia, 2011. Emerging Infectious Diseases, 2012, 18, 792-800.	2.0	121
8	Taxonomy of the order Bunyavirales: second update 2018. Archives of Virology, 2019, 164, 927-941.	0.9	115
9	The insect-specific Palm Creek virus modulates West Nile virus infection in and transmission by Australian mosquitoes. Parasites and Vectors, 2016, 9, 414.	1.0	112
10	DNA vaccine coding for the full-length infectious Kunjin virus RNA protects mice against the New York strain of West Nile virus. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10460-10464.	3.3	104
11	Mechanism of West Nile Virus Neuroinvasion: A Critical Appraisal. Viruses, 2014, 6, 2796-2825.	1.5	102
12	Epitope-Blocking Enzyme-Linked Immunosorbent Assays for Detection of West Nile Virus Antibodies in Domestic Mammals. Journal of Clinical Microbiology, 2003, 41, 2676-2679.	1.8	95
13	MOSQUITO FEEDING PATTERNS AND NATURAL INFECTION OF VERTEBRATES WITH ROSS RIVER AND BARMAH FOREST VIRUSES IN BRISBANE, AUSTRALIA. American Journal of Tropical Medicine and Hygiene, 2007, 76, 417-423.	0.6	92
14	A versatile reverse genetics platform for SARS-CoV-2 and other positive-strand RNA viruses. Nature Communications, 2021, 12, 3431.	5.8	89
15	Post-translational regulation and modifications of flavivirus structural proteins. Journal of General Virology, 2015, 96, 1551-1569.	1.3	83
16	West Nile Virus: An Update on Pathobiology, Epidemiology, Diagnostics, Control and â€œOne Healthâ€• Implications. Pathogens, 2020, 9, 589.	1.2	79
17	Identification of australian arboviruses in inoculated cell cultures using monoclonal antibodies in ELISA. Pathology, 1998, 30, 286-288.	0.3	76
18	A recombinant platform for flavivirus vaccines and diagnostics using chimeras of a new insect-specific virus. Science Translational Medicine, 2019, 11, .	5.8	70

#	Article	IF	Citations
19	Neutralizing monoclonal antibodies to the E2 protein of chikungunya virus protects against disease in a mouse model. Clinical Immunology, 2013, 149, 487-497.	1.4	67
20	In situ reactions of monoclonal antibodies with a viable mutant of Murray Valley encephalitis virus reveal an absence of dimeric NS1 protein. Journal of General Virology, 2007, 88, 1175-1183.	1.3	66
21	Commensal Viruses of Mosquitoes: Host Restriction, Transmission, and Interaction with Arboviral Pathogens. Evolutionary Bioinformatics, 2016, 12s2, EBO.S40740.	0.6	66
22	A Novel Bacterium-Free Method for Generation of Flavivirus Infectious DNA by Circular Polymerase Extension Reaction Allows Accurate Recapitulation of Viral Heterogeneity. Journal of Virology, 2013, 87, 2367-2372.	1.5	65
23	A New Clade of Insect-Specific Flaviviruses from Australian Anopheles Mosquitoes Displays Species-Specific Host Restriction. MSphere, 2017, 2, .	1.3	64
24	Viral RNA Intermediates as Targets for Detection and Discovery of Novel and Emerging Mosquito-Borne Viruses. PLoS Neglected Tropical Diseases, 2015, 9, e0003629.	1.3	62
25	2021 Taxonomic update of phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. Archives of Virology, 2021, 166, 3513-3566.	0.9	62
26	Loss of Dimerisation of the Nonstructural Protein NS1 of Kunjin Virus Delays Viral Replication and Reduces Virulence in Mice, but Still Allows Secretion of NS1. Virology, 1999, 264, 66-75.	1.1	60
27	Kunjin Virus. Annals of the New York Academy of Sciences, 2001, 951, 153-160.	1.8	58
28	West Nile virus vaccines. Expert Opinion on Biological Therapy, 2004, 4, 1295-1305.	1.4	52
29	A novel insect-specific flavivirus replicates only in Aedes-derived cells and persists at high prevalence in wild Aedes vigilax populations in Sydney, Australia. Virology, 2015, 486, 272-283.	1.1	51
30	Determinants of Zika virus host tropism uncovered by deep mutational scanning. Nature Microbiology, 2019, 4, 876-887.	5.9	50
31	Zika virus noncoding RNA suppresses apoptosis and is required for virus transmission by mosquitoes. Nature Communications, 2020, 11, 2205.	5.8	50
32	Detection of West Nile Virus Antigen in Mosquitoes and Avian Tissues by a Monoclonal Antibody-Based Capture Enzyme Immunoassay. Journal of Clinical Microbiology, 2002, 40, 2023-2030.	1.8	49
33	Immunisation with gamma globulin to Murray Valley encephalitis virus and with an inactivated Japanese encephalitis virus vaccine as prophylaxis against Australian encephalitis: Evaluation in a mouse model. , 2000, 61, 259-265.		47
34	A New Species of Mesonivirus from the Northern Territory, Australia. PLoS ONE, 2014, 9, e91103.	1.1	45
35	Virulence determinants between New York 99 and Kunjin strains of West Nile virus. Virology, 2011, 414, 63-73.	1.1	44
36	Mosquito feeding patterns and natural infection of vertebrates with Ross River and Barmah Forest viruses in Brisbane, Australia. American Journal of Tropical Medicine and Hygiene, 2007, 76, 417-23.	0.6	41

#	Article	IF	Citations
37	Monoclonal antibodies to Kunjin and Kokobera viruses. Immunology and Cell Biology, 1991, 69, 47-49.	1.0	40
38	The West Nile Virus-Like Flavivirus Koutango Is Highly Virulent in Mice due to Delayed Viral Clearance and the Induction of a Poor Neutralizing Antibody Response. Journal of Virology, 2014, 88, 9947-9962.	1.5	40
39	Inactivation of dengue, chikungunya, and Ross River viruses in platelet concentrates after treatment with ultraviolet C light. Transfusion, 2016, 56, 1548-1555.	0.8	40
40	Infectious DNAs derived from insect-specific flavivirus genomes enable identification of pre- and post-entry host restrictions in vertebrate cells. Scientific Reports, 2017, 7, 2940.	1.6	40
41	A New Orbivirus Isolated from Mosquitoes in North-Western Australia Shows Antigenic and Genetic Similarity to Corriparta Virus but Does Not Replicate in Vertebrate Cells. Viruses, 2016, 8, 141.	1.5	37
42	Mutation of the N-Terminal Region of Chikungunya Virus Capsid Protein: Implications for Vaccine Design. MBio, 2017, 8, .	1.8	37
43	Biological, antigenic and phylogenetic characterization of the flavivirus Alfuy. Journal of General Virology, 2006, 87, 329-337.	1.3	35
44	Reduction of Zika virus infectivity in platelet concentrates after treatment with ultraviolet C light and in plasma after treatment with methylene blue and visible light. Transfusion, 2017, 57, 2677-2682.	0.8	35
45	Arboviruses Isolated from Mosquitoes Collected from Urban and Peri-urban Areas of Eastern Australia. Journal of the American Mosquito Control Association, 2009, 25, 272-278.	0.2	34
46	Programmed Ribosomal Frameshift Alters Expression of West Nile Virus Genes and Facilitates Virus Replication in Birds and Mosquitoes. PLoS Pathogens, 2014, 10, e1004447.	2.1	33
47	The structure of an infectious immature flavivirus redefines viral architecture and maturation. Science Advances, 2021, 7, .	4.7	33
48	Safety and immunogenicity of a delta inulin-adjuvanted inactivated Japanese encephalitis virus vaccine in pregnant mares and foals. Veterinary Research, 2014, 45, 130.	1.1	32
49	Do You Kiss Your Mother with That Mouth? An Authentic Large-Scale Undergraduate Research Experience in Mapping the Human Oral Microbiome. Journal of Microbiology and Biology Education, 2015, 16, 50-60.	0.5	31
50	Antigenic Characterization of New Lineage II Insect-Specific Flaviviruses in Australian Mosquitoes and Identification of Host Restriction Factors. MSphere, 2020, 5, .	1.3	31
51	The invasive Asian bush mosquito Aedes japonicus found in the Netherlands can experimentally transmit Zika virus and Usutu virus. PLoS Neglected Tropical Diseases, 2020, 14, e0008217.	1.3	30
52	Identification of new flaviviruses in the Kokobera virus complex. Journal of General Virology, 2005, 86, 121-124.	1.3	28
53	Systematic analysis of viral genes responsible for differential virulence between American and Australian West Nile virus strains. Journal of General Virology, 2015, 96, 1297-1308.	1.3	28
54	Discovery and Characterisation of Castlerea Virus, a New Species of Negevirus Isolated in Australia. Evolutionary Bioinformatics, 2017, 13, 117693431769126.	0.6	28

#	Article	IF	Citations
55	A unified route for flavivirus structures uncovers essential pocket factors conserved across pathogenic viruses. Nature Communications, 2021, 12, 3266.	5.8	28
56	Determination of the intramolecular disulfide bond arrangement and biochemical identification of the glycosylation sites of the nonstructural protein NS1 of Murray Valley encephalitis virus. Journal of General Virology, 2001, 82, 2251-2256.	1.3	27
57	Natural Exposure of Horses to Mosquito-Borne Flaviviruses in South-East Queensland, Australia. International Journal of Environmental Research and Public Health, 2013, 10, 4432-4443.	1.2	26
58	Role of enhanced vector transmission of a new West Nile virus strain in an outbreak of equine disease in Australia in 2011. Parasites and Vectors, 2014, 7, 586.	1.0	26
59	Monoclonal antibodies specific for the capsid protein of chikungunya virus suitable for multiple applications. Journal of General Virology, 2015, 96, 507-512.	1.3	26
60	Virulence and Evolution of West Nile Virus, Australia, 1960â€“2012. Emerging Infectious Diseases, 2016, 22, 1353-1362.	2.0	26
61	Discovery and characterisation of a new insect-specific bunyavirus from Culex mosquitoes captured in northern Australia. Virology, 2016, 489, 269-281.	1.1	26
62	Protective Efficacy of a Chimeric Insect-Specific Flavivirus Vaccine against West Nile Virus. Vaccines, 2020, 8, 258.	2.1	25
63	A newly discovered flavivirus in the yellow fever virus group displays restricted replication in vertebrates. Journal of General Virology, 2016, 97, 1087-1093.	1.3	25
64	A glycosylated peptide in the West Nile virus envelope protein is immunogenic during equine infection. Journal of General Virology, 2008, 89, 3063-3072.	1.3	24
65	Discovery of a novel iflavirus sequence in the eastern paralysis tick Ixodes holocyclus. Archives of Virology, 2018, 163, 2451-2457.	0.9	24
66	A Yellow Fever Virus 17D Infection and Disease Mouse Model Used to Evaluate a Chimeric Binjari-Yellow Fever Virus Vaccine. Vaccines, 2020, 8, 368.	2.1	24
67	A chimeric dengue virus vaccine candidate delivered by high density microarray patches protects against infection in mice. Npj Vaccines, 2021, 6, 66.	2.9	22
68	The effect of riboflavin and ultraviolet light on the infectivity of arboviruses. Transfusion, 2015, 55, 824-831.	0.8	21
69	Discovery of new orbiviruses and totivirus from Anopheles mosquitoes in Eastern Australia. Archives of Virology, 2017, 162, 3529-3534.	0.9	21
70	Arthritogenic Alphavirus Vaccines: Serogrouping Versus Cross-Protection in Mouse Models. Vaccines, 2020, 8, 209.	2.1	21
71	Understanding the role of microRNAs in the interaction of Aedes aegypti mosquitoes with an insect-specific flavivirus. Journal of General Virology, 2017, 98, 1892-1903.	1.3	21
72	Monoclonal antibodies to the West Nile virus NS5 protein map to linear and conformational epitopes in the methyltransferase and polymerase domains. Journal of General Virology, 2009, 90, 2912-2922.	1.3	20

#	Article	IF	Citations
73	Molecular Phylogeny of Edge Hill Virus Supports its Position in the Yellow Fever Virus Group and Identifies a New Genetic Variant. Evolutionary Bioinformatics, 2010, 6, EBO.S4966.	0.6	20
74	Determinants of attenuation in the envelope protein of the flavivirus Alfuy. Journal of General Virology, 2011, 92, 2286-2296.	1.3	20
75	An Enzyme Immunoassay to Detect Australian Flaviviruses and Identify the Encephalitic Subgroup using Monoclonal Antibodies. Immunology and Cell Biology, 1987, 65, 103-110.	1.0	19
76	The Australian Public is Still Vulnerable to Emerging Virulent Strains of West Nile Virus. Frontiers in Public Health, 2014, 2, 146.	1.3	19
77	Characterization of non-lethal West Nile Virus (WNV) infection in horses: Subclinical pathology and innate immune response. Microbial Pathogenesis, 2017, 103, 71-79.	1.3	19
78	Chimeric viruses of the insect-specific flavivirus Palm Creek with structural proteins of vertebrate-infecting flaviviruses identify barriers to replication of insect-specific flaviviruses in vertebrate cells. Journal of General Virology, 2019, 100, 1580-1586.	1.3	19
79	Typeâ€specific monoclonal antibodies produced to proteins of Murray Valley encephalitis virus. Immunology and Cell Biology, 1988, 66, 51-56.	1.0	17
80	An interaction between the methyltransferase and RNA dependent RNA polymerase domains of the West Nile virus NS5 protein. Journal of General Virology, 2013, 94, 1961-1971.	1.3	17
81	Experimental West Nile Virus Infection in Rabbits: An Alternative Model for Studying Induction of Disease and Virus Control. Pathogens, 2015, 4, 529-558.	1.2	16
82	The recently identified flavivirus Bamaga virus is transmitted horizontally by Culex mosquitoes and interferes with West Nile virus replication in vitro and transmission in vivo. PLoS Neglected Tropical Diseases, 2018, 12, e0006886.	1.3	16
83	West Nile Virus Challenge Alters the Transcription Profiles of Innate Immune Genes in Rabbit Peripheral Blood Mononuclear Cells. Frontiers in Veterinary Science, 2015, 2, 76.	0.9	15
84	Synthetic Biology Provides a Toehold in the Fight against Zika. Cell Host and Microbe, 2016, 19, 752-754.	5.1	15
85	A Zika Vaccine Generated Using the Chimeric Insect-Specific Binjari Virus Platform Protects against Fetal Brain Infection in Pregnant Mice. Vaccines, 2020, 8, 496.	2.1	15
86	Mosquito-Independent Transmission of West Nile virus in Farmed Saltwater Crocodiles (Crocodylus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.5	15
87	Insect-Specific Flavivirus Replication in Mammalian Cells Is Inhibited by Physiological Temperature and the Zinc-Finger Antiviral Protein. Viruses, 2021, 13, 573.	1.5	15
88	Inactivation of yellow fever virus in plasma after treatment with methylene blue and visible light and in platelet concentrates following treatment with ultraviolet C light. Transfusion, 2019, 59, 2223-2227.	0.8	14
89	New genotypes of Liao ning virus (LNV) in Australia exhibit an insect-specific phenotype. Journal of General Virology, 2018, 99, 596-609.	1.3	14
90	Epitope-Blocking Enzyme-Linked Immunosorbent Assay for Detection of Antibodies to Ross River Virus in Vertebrate Sera. Vaccine Journal, 2006, 13, 814-817.	3.2	13

#	Article	IF	Citations
91	The Chikungunya Virus Capsid Protein Contains Linear B Cell Epitopes in the N- and C-Terminal Regions that are Dependent on an Intact C-Terminus for Antibody Recognition. Viruses, 2015, 7, 2943-2964.	1.5	13
92	The taxonomy of an Australian nodavirus isolated from mosquitoes. PLoS ONE, 2018, 13, e0210029.	1.1	13
93	Structural analysis of 3â€™UTRs in insect flaviviruses reveals novel determinants of sfRNA biogenesis and provides new insights into flavivirus evolution. Nature Communications, 2022, 13, 1279.	5.8	13
94	NS4/5 mutations enhance flavivirus Bamaga virus infectivity and pathogenicity in vitro and in vivo. PLoS Neglected Tropical Diseases, 2020, 14, e0008166.	1.3	12
95	Host ESCRT factors are recruited during chikungunya virus infection and are required for the intracellular viral replication cycle. Journal of Biological Chemistry, 2020, 295, 7941-7957.	1.6	12
96	The Insect-Specific Parramatta River Virus Is Vertically Transmitted by Aedes vigilax Mosquitoes and Suppresses Replication of Pathogenic Flaviviruses In Vitro. Vector-Borne and Zoonotic Diseases, 2021, 21, 208-215.	0.6	12
97	Novel monoclonal antibodies against Australian strains of negeviruses and insights into virus structure, replication and host -restriction. Journal of General Virology, 2020, 101, 440-452.	1.3	12
98	Increased expression of capsid protein in trans enhances production of single-round infectious particles by West Nile virus DNA vaccine candidate. Journal of General Virology, 2014, 95, 2176-2191.	1.3	11
99	End-point disease investigation for virus strains of intermediate virulence as illustrated by flavivirus infections. Journal of General Virology, 2016, 97, 366-377.	1.3	11
100	Genetic divergence among members of the Kokobera group of flaviviruses supports their separation into distinct species. Journal of General Virology, 2013, 94, 1462-1467.	1.3	11
101	Chimeric Vaccines Based on Novel Insect-Specific Flaviviruses. Vaccines, 2021, 9, 1230.	2.1	11
102	A sensitive epitope-blocking ELISA for the detection of Chikungunya virus-specific antibodies in patients. Journal of Virological Methods, 2015, 222, 55-61.	1.0	10
103	<scp>R</scp>oss <scp>R</scp>iver virus in <scp>A</scp>ustralian blood donors: possible implications for blood transfusion safety. Transfusion, 2018, 58, 485-492.	0.8	10
104	Genetic, Morphological and Antigenic Relationships between Mesonivirus Isolates from Australian Mosquitoes and Evidence for Their Horizontal Transmission. Viruses, 2020, 12, 1159.	1.5	10
105	Developing a Stabilizing Formulation of a Live Chimeric Dengue Virus Vaccine Dry Coated on a High-Density Microarray Patch. Vaccines, 2021, 9, 1301.	2.1	10
106	The Chimeric Binjari-Zika Vaccine Provides Long-Term Protection against ZIKA Virus Challenge. Vaccines, 2022, 10, 85.	2.1	10
107	Evaluation of a mouse model for the West Nile virus group for the purpose of determining viral pathotypes. Journal of General Virology, 2014, 95, 1221-1232.	1.3	9
108	Kinetics of the West Nile virus induced transcripts of selected cytokines and Toll-like receptors in equine peripheral blood mononuclear cells. Veterinary Research, 2016, 47, 61.	1.1	9

#	Article	IF	Citations
109	ChimeriVax-West Nile vaccine. Current Opinion in Molecular Therapeutics, 2007, 9, 498-504.	2.8	9
110	Tissue-specific transcription profile of cytokine and chemokine genes associated with flavivirus control and non-lethal neuropathogenesis in rabbits. Virology, 2016, 494, 1-14.	1.1	8
111	A Unique Relative of Rotifer Birnavirus Isolated from Australian Mosquitoes. Viruses, 2020, 12, 1056.	1.5	8
112	Reporter Flaviviruses as Tools to Demonstrate Homologous and Heterologous Superinfection Exclusion. Viruses, 2022, 14, 1501.	1.5	7
113	Complete Coding Sequences of Three Members of the Kokobera Group of Flaviviruses. Genome Announcements, 2014, 2, .	0.8	6
114	Inactivation of <scp>Japanese</scp> encephalitis virus in plasma by methylene blue combined with visible light and in platelet concentrates by ultraviolet <scp>C</scp> light. Transfusion, 2020, 60, 2655-2660.	0.8	6
115	Differential Diagnosis of Flavivirus Infections in Horses Using Viral Envelope Protein Domain III Antigens in Enzyme-Linked Immunosorbent Assay. Vector-Borne and Zoonotic Diseases, 2017, 17, 825-835.	0.6	5
116	Diverse mosquito-specific flaviviruses in the Bolivian Amazon basin. Journal of General Virology, 2021, 102, .	1.3	5
117	Nucleic Acid-Based Infectious and Pseudo-Infectious Flavivirus Vaccines. , 2011, , 299-320.		4
118	The I22V and L72S substitutions in West Nile virus prM protein promote enhanced prM/E heterodimerisation and nucleocapsid incorporation. Virology Journal, 2015, 12, 72.	1.4	3
119	Detection of emergent strains of <scp>W</scp>est <scp>N</scp>ile virus with a blood screening assay. Transfusion, 2016, 56, 1503-1507.	0.8	3
120	Novel Flavivirus Attenuation Markers Identified in the Envelope Protein of Alfuy Virus. Viruses, 2021, 13, 147.	1.5	3
121	Improved detection of flaviviruses in Australian mosquito populations via replicative intermediates. Journal of General Virology, 2021, 102, .	1.3	3
122	Evidence of Infection with Zoonotic Mosquito-Borne Flaviviruses in Saltwater Crocodiles (Crocodylus porosus) in Northern Australia. Viruses, 2022, 14, 1106.	1.5	3
123	The Impact of Prior Flavivirus Infections on the Development of Type 2 Diabetes Among the Indigenous Australians. American Journal of Tropical Medicine and Hygiene, 2016, 95, 265-268.	0.6	2
124	Extended characterisation of five archival tick-borne viruses provides insights for virus discovery in Australian ticks. Parasites and Vectors, 2022, 15, 59.	1.0	2
125	Newly discovered mosquito viruses help control vector-borne viral diseases. Microbiology Australia, 2018, 39, 72.	0.1	1
126	Serological characterization of lineage II insect-specific flaviviruses compared with pathogenic mosquito-borne flaviviruses. Biochemical and Biophysical Research Communications, 2022, 616, 115-121.	1.0	1

#	Article	IF	Citations
127	Vaccine delivery: Nanopatch-Targeted Skin Vaccination against West Nile Virus and Chikungunya Virus in Mice (Small 16/2010). Small, 2010, 6, n/a-n/a.	5.2	0
128	Implications of Dengue Virus Maturation on Vaccine Induced Humoral Immunity in Mice. Viruses, 2021, 13, 1843.	1.5	0
129	Vaccine Development Against West Nile Virus. , 2009, , 427-451.		0
130	Could Australian ticks harbour emerging viral pathogens?. Microbiology Australia, 2018, 39, 185.	0.1	0