

David J Evans

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72
papers

3,325
citations

34
h-index

57
g-index

78
ext. papers

3,750
ext. citations

8.4
avg, IF

5.06
L-index

#	Paper	IF	Citations
72	A virulent strain of deformed wing virus (DWV) of honeybees (<i>Apis mellifera</i>) prevails after <i>Varroa destructor</i> -mediated, or in vitro, transmission. <i>PLoS Pathogens</i> , 2014 , 10, e1004230	7.6	215
71	An engineered poliovirus chimaera elicits broadly reactive HIV-1 neutralizing antibodies. <i>Nature</i> , 1989 , 339, 385-8, 340	50.4	207
70	Identification of a cis-acting replication element within the poliovirus coding region. <i>Journal of Virology</i> , 2000 , 74, 4590-600	6.6	203
69	Detection of genome-scale ordered RNA structure (GORS) in genomes of positive-stranded RNA viruses: Implications for virus evolution and host persistence. <i>Rna</i> , 2004 , 10, 1337-51	5.8	170
68	The influence of CpG and UpA dinucleotide frequencies on RNA virus replication and characterization of the innate cellular pathways underlying virus attenuation and enhanced replication. <i>Nucleic Acids Research</i> , 2014 , 42, 4527-45	20.1	129
67	RNA virus attenuation by codon pair deoptimisation is an artefact of increases in CpG/UpA dinucleotide frequencies. <i>ELife</i> , 2014 , 3, e04531	8.9	119
66	Recombinants between Deformed wing virus and <i>Varroa destructor</i> virus-1 may prevail in <i>Varroa destructor</i> -infested honeybee colonies. <i>Journal of General Virology</i> , 2011 , 92, 156-61	4.9	116
65	Thermodynamic and phylogenetic prediction of RNA secondary structures in the coding region of hepatitis C virus. <i>Rna</i> , 2002 , 8, 824-41	5.8	104
64	The association of recombination events in the founding and emergence of subgenogroup evolutionary lineages of human enterovirus 71. <i>Journal of Virology</i> , 2012 , 86, 2676-85	6.6	91
63	A hepatitis C virus cis-acting replication element forms a long-range RNA-RNA interaction with upstream RNA sequences in NS5B. <i>Journal of Virology</i> , 2008 , 82, 9008-22	6.6	91
62	Bioinformatic and functional analysis of RNA secondary structure elements among different genera of human and animal caliciviruses. <i>Nucleic Acids Research</i> , 2008 , 36, 2530-46	20.1	89
61	Transmission networks and population turnover of echovirus 30. <i>Journal of Virology</i> , 2009 , 83, 2109-18	6.6	87
60	Molecular analysis of the epidermal growth factor-like short consensus repeat domain-mediated protein-protein interactions: dissection of the CD97-CD55 complex. <i>Journal of Biological Chemistry</i> , 2001 , 276, 24160-9	5.4	87
59	Bioinformatic and physical characterizations of genome-scale ordered RNA structure in mammalian RNA viruses. <i>Journal of Virology</i> , 2008 , 82, 11824-36	6.6	86
58	Evolutionary dynamics and temporal/geographical correlates of recombination in the human enterovirus echovirus types 9, 11, and 30. <i>Journal of Virology</i> , 2010 , 84, 9292-300	6.6	84
57	Cell receptors for picornaviruses as determinants of cell tropism and pathogenesis. <i>Trends in Microbiology</i> , 1998 , 6, 198-202	12.4	81
56	Echoviruses bind heparan sulfate at the cell surface. <i>Journal of Virology</i> , 2001 , 75, 4918-21	6.6	67

55	Determination of the affinity and kinetic constants for the interaction between the human virus echovirus 11 and its cellular receptor, CD55. <i>Journal of Biological Chemistry</i> , 1998 , 273, 30443-7	5.4	64
54	Structure and function analysis of the poliovirus cis-acting replication element (CRE). <i>Rna</i> , 2003 , 9, 124-37.8		58
53	Recombination in enteroviruses is a biphasic replicative process involving the generation of greater-than genome length imprecise intermediates. <i>PLoS Pathogens</i> , 2014 , 10, e1004191	7.6	57
52	A twist in the tail: SHAPE mapping of long-range interactions and structural rearrangements of RNA elements involved in HCV replication. <i>Nucleic Acids Research</i> , 2012 , 40, 6908-21	20.1	57
51	Inhibition of coxsackie B virus infection by soluble forms of its receptors: binding affinities, altered particle formation, and competition with cellular receptors. <i>Journal of Virology</i> , 2005 , 79, 12016-24	6.6	55
50	Viruses Inhibit CO2 Fixation in the Most Abundant Phototrophs on Earth. <i>Current Biology</i> , 2016 , 26, 1585-1589	5.89	54
49	Shedding new light on viral photosynthesis. <i>Photosynthesis Research</i> , 2015 , 126, 71-97	3.7	52
48	Mapping CD55 function. The structure of two pathogen-binding domains at 1.7 Å. <i>Journal of Biological Chemistry</i> , 2003 , 278, 10691-6	5.4	51
47	The poliovirus 2C cis-acting replication element-mediated uridylylation of VPg is not required for synthesis of negative-sense genomes. <i>Journal of General Virology</i> , 2003 , 84, 2359-2363	4.9	50
46	Role for beta2-microglobulin in echovirus infection of rhabdomyosarcoma cells. <i>Journal of Virology</i> , 1998 , 72, 5360-5	6.6	48
45	Mapping the binding domains on decay accelerating factor (DAF) for haemagglutinating enteroviruses: implications for the evolution of a DAF-binding phenotype. <i>Journal of General Virology</i> , 1999 , 80 (Pt 12), 3145-3152	4.9	42
44	Mechanisms and consequences of positive-strand RNA virus recombination. <i>Journal of General Virology</i> , 2018 , 99, 1345-1356	4.9	40
43	Identification of a conserved RNA replication element (cre) within the 3Dpol-coding sequence of hepatoviruses. <i>Journal of Virology</i> , 2008 , 82, 10118-28	6.6	37
42	The influence of viral RNA secondary structure on interactions with innate host cell defences. <i>Nucleic Acids Research</i> , 2014 , 42, 3314-29	20.1	35
41	The Iflaviruses Sacbrood virus and Deformed wing virus evoke different transcriptional responses in the honeybee which may facilitate their horizontal or vertical transmission. <i>PeerJ</i> , 2016 , 4, e1591	3.1	35
40	Coxsackievirus B3-associated myocardial pathology and viral load reduced by recombinant soluble human decay-accelerating factor in mice. <i>Laboratory Investigation</i> , 2003 , 83, 75-85	5.9	34
39	Monoclonal antibodies to the C4 region of human immunodeficiency virus type 1 gp120: use in topological analysis of a CD4 binding site. <i>AIDS Research and Human Retroviruses</i> , 1992 , 8, 451-9	1.6	34
38	Energy limitation of cyanophage development: implications for marine carbon cycling. <i>ISME Journal</i> , 2018 , 12, 1273-1286	11.9	33

37	Kaposi's sarcoma-associated herpesvirus viral interferon regulatory factor-2 inhibits type 1 interferon signalling by targeting interferon-stimulated gene factor-3. <i>Journal of General Virology</i> , 2011 , 92, 2394-2398	4.9	30
36	An antisense RNA in a lytic cyanophage links psbA to a gene encoding a homing endonuclease. <i>ISME Journal</i> , 2010 , 4, 1121-35	11.9	27
35	Biochemical and genetic analysis of the role of the viral polymerase in enterovirus recombination. <i>Nucleic Acids Research</i> , 2016 , 44, 6883-95	20.1	26
34	Inhibition of HCV translation by disrupting the structure and interactions of the viral CRE and 3' UTR tail. <i>Nucleic Acids Research</i> , 2015 , 43, 2914-26	20.1	26
33	Structural and functional insights into the interaction of echoviruses and decay-accelerating factor. <i>Journal of Biological Chemistry</i> , 2006 , 281, 5169-77	5.4	26
32	The structure of echovirus type 12 bound to a two-domain fragment of its cellular attachment protein decay-accelerating factor (CD 55). <i>Journal of Biological Chemistry</i> , 2004 , 279, 8325-32	5.4	24
31	Influence of genome-scale RNA structure disruption on the replication of murine norovirus--similar replication kinetics in cell culture but attenuation of viral fitness in vivo. <i>Nucleic Acids Research</i> , 2013 , 41, 6316-31	20.1	23
30	Echovirus infection of rhabdomyosarcoma cells is inhibited by antiserum to the complement control protein CD59. <i>Microbiology (United Kingdom)</i> , 2000 , 81, 1393-401	2.9	22
29	Attenuation of dengue (and other RNA viruses) with codon pair recoding can be explained by increased CpG/UpA dinucleotide frequencies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E3633-4	11.5	21
28	Modelling of poliovirus. HIV-1 antigen chimaeras. <i>FEBS Letters</i> , 1990 , 271, 194-8	3.8	20
27	Replication enhancer elements within the open reading frame of tick-borne encephalitis virus and their evolution within the Flavivirus genus. <i>Nucleic Acids Research</i> , 2011 , 39, 7034-48	20.1	19
26	Similar interactions of the poliovirus and rhinovirus 3D polymerases with the 3' untranslated region of rhinovirus 14. <i>Journal of Virology</i> , 1999 , 73, 9952-8	6.6	18
25	Coxsackie B viruses that use human DAF as a receptor infect pig cells via pig CAR and do not use pig DAF. <i>Journal of General Virology</i> , 2002 , 83, 45-52	4.9	18
24	Green Bees: Reverse Genetic Analysis of Deformed Wing Virus Transmission, Replication, and Tropism. <i>Viruses</i> , 2020 , 12,	6.2	17
23	Generation of anti-complement "prodrugs": cleavable reagents for specific delivery of complement regulators to disease sites. <i>Journal of Biological Chemistry</i> , 2003 , 278, 36068-76	5.4	17
22	Evidence for and against deformed wing virus spillover from honey bees to bumble bees: a reverse genetic analysis. <i>Scientific Reports</i> , 2020 , 10, 16847	4.9	16
21	Cloning and sequencing of the nifH gene of <i>Desulfovibrio gigas</i> . <i>FEMS Microbiology Letters</i> , 1989 , 61, 73-78	2.9	15
20	Reverse genetics of picornaviruses. <i>Advances in Virus Research</i> , 1999 , 53, 209-28	10.7	11

19	Spontaneous Deletion of an "ORFanage" Region Facilitates Host Adaptation in a "Photosynthetic" Cyanophage. <i>PLoS ONE</i> , 2015 , 10, e0132642	3.7	9
18	Chronic bee paralysis as a serious emerging threat to honey bees. <i>Nature Communications</i> , 2020 , 11, 21647.4	7.4	8
17	Crystallization and preliminary X-ray diffraction analysis of a biologically active fragment of CD55. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999 , 55, 1198-200		8
16	Design, construction, and characterization of poliovirus antigen chimeras. <i>Methods in Enzymology</i> , 1991 , 203, 386-400	1.7	8
15	Imprecise recombinant viruses evolve via a fitness-driven, iterative process of polymerase template-switching events. <i>PLoS Pathogens</i> , 2021 , 17, e1009676	7.6	7
14	Interactions of decay-accelerating factor (DAF) with haemagglutinating human enteroviruses: utilizing variation in primate DAF to map virus binding sites. <i>Journal of General Virology</i> , 2004 , 85, 731-738 ⁹	4.9	6
13	Identification of a cis-Acting Replication Element within the Poliovirus Coding Region. <i>Journal of Virology</i> , 2000 , 74, 4590-4600	6.6	6
12	Occurrence, prevalence and viral load of deformed wing virus variants in <i>Apis mellifera</i> colonies in Chile. <i>Journal of Apicultural Research</i> , 2020 , 59, 63-68	2	6
11	Fatty acid-depleted albumin induces the formation of echovirus A particles. <i>Journal of Virology</i> , 2000 , 74, 3410-2	6.6	5
10	MosaicSolver: a tool for determining recombinants of viral genomes from pileup data. <i>Nucleic Acids Research</i> , 2014 , 42, e123	20.1	4
9	Deformed Wing Virus spillover from honey bees to bumble bees: a reverse genetic study		4
8	Genetic recombination of poliovirus facilitates subversion of host barriers to infection		4
7	Error correction and diversity analysis of population mixtures determined by NGS. <i>PeerJ</i> , 2014 , 2, e645	3.1	3
6	Recombination in enteroviruses is a ubiquitous event independent of sequence homology and RNA structure		3
5	Author response: RNA virus attenuation by codon pair deoptimisation is an artefact of increases in CpG/UpA dinucleotide frequencies 2014 ,		2
4	Deformed wing virus: using reverse genetics to tackle unanswered questions about the most important viral pathogen of honey bees. <i>FEMS Microbiology Reviews</i> , 2021 , 45,	15.1	2
3	First come, first served: superinfection exclusion in Deformed wing virus is dependent upon sequence identity and not the order of virus acquisition. <i>ISME Journal</i> , 2021 , 15, 3704-3713	11.9	1
2	Growth and characterization of poliovirus antigen chimeras. <i>Methods in Molecular Biology</i> , 1992 , 8, 257-63 ⁴	3.4	

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Generated Randomly and Selected Functionally? The Nature of Enterovirus Recombination. *Viruses*, **2022**, 14, 916

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