David J Evans

List of Publications by Year in Descending Order

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	Generated Randomly and Selected Functionally? The Nature of Enterovirus Recombination. *Viruses*, **2022**, 14, 916	6.2	
71	Deformed wing virus: using reverse genetics to tackle unanswered questions about the most important viral pathogen of honey bees. *FEMS Microbiology Reviews*, **2021**, 45,	15.1	2
70	First come, first served: superinfection exclusion in Deformed wing virus is dependent upon sequence identity and not the order of virus acquisition. *ISME Journal*, **2021**, 15, 3704-3713	11.9	1
69	Imprecise recombinant viruses evolve via a fitness-driven, iterative process of polymerase template-switching events. *PLoS Pathogens*, **2021**, 17, e1009676	7.6	7
68	Chronic bee paralysis as a serious emerging threat to honey bees. *Nature Communications*, **2020**, 11, 2164	17.4	8
67	Green Bees: Reverse Genetic Analysis of Deformed Wing Virus Transmission, Replication, and Tropism. *Viruses*, **2020**, 12,	6.2	17
66	Evidence for and against deformed wing virus spillover from honey bees to bumble bees: a reverse genetic analysis. *Scientific Reports*, **2020**, 10, 16847	4.9	16
65	Occurrence, prevalence and viral load of deformed wing virus variants in Apis mellifera colonies in Chile. *Journal of Apicultural Research*, **2020**, 59, 63-68	2	6
64	Energy limitation of cyanophage development: implications for marine carbon cycling. *ISME Journal* , **2018**, 12, 1273-1286	11.9	33
63	Mechanisms and consequences of positive-strand RNA virus recombination. *Journal of General Virology*, **2018**, 99, 1345-1356	4.9	40
62	Viruses Inhibit CO2 Fixation in the Most Abundant Phototrophs on Earth. *Current Biology*, **2016**, 26, 1585-1589	6.5	54
61	Biochemical and genetic analysis of the role of the viral polymerase in enterovirus recombination. *Nucleic Acids Research*, **2016**, 44, 6883-95	20.1	26
60	The Iflaviruses Sacbrood virus and Deformed wing virus evoke different transcriptional responses in the honeybee which may facilitate their horizontal or vertical transmission. *PeerJ*, **2016**, 4, e1591	3.1	35
59	Attenuation of dengue (and other RNA viruses) with codon pair recoding can be explained by increased CpG/UpA dinucleotide frequencies. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E3633-4	11.5	21
58	Shedding new light on viral photosynthesis. *Photosynthesis Research*, **2015**, 126, 71-97	3.7	52
57	Spontaneous Deletion of an "ORFanage" Region Facilitates Host Adaptation in a "Photosynthetic" Cyanophage. *PLoS ONE*, **2015**, 10, e0132642	3.7	9
56	Inhibition of HCV translation by disrupting the structure and interactions of the viral CRE and 3U X-tail. *Nucleic Acids Research*, **2015**, 43, 2914-26	20.1	26

55	The influence of viral RNA secondary structure on interactions with innate host cell defences. *Nucleic Acids Research*, **2014**, 42, 3314-29	20.1	35
54	A virulent strain of deformed wing virus (DWV) of honeybees (Apis mellifera) prevails after Varroa destructor-mediated, or in vitro, transmission. *PLoS Pathogens*, **2014**, 10, e1004230	7.6	215
53	MosaicSolver: a tool for determining recombinants of viral genomes from pileup data. *Nucleic Acids Research*, **2014**, 42, e123	20.1	4
52	Recombination in enteroviruses is a biphasic replicative process involving the generation of greater-than genome length 'imprecise'intermediates. *PLoS Pathogens*, **2014**, 10, e1004191	7.6	57
51	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. *Nucleic Acids Research*, **2014**, 42, 4527-45	20.1	129
50	RNA virus attenuation by codon pair deoptimisation is an artefact of increases in CpG/UpA dinucleotide frequencies. *ELife*, **2014**, 3, e04531	8.9	119
49	Author response: RNA virus attenuation by codon pair deoptimisation is an artefact of increases in CpG/UpA dinucleotide frequencies **2014**,		2
48	Error correction and diversity analysis of population mixtures determined by NGS. *PeerJ*, **2014**, 2, e645	3.1	3
47	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. *Nucleic Acids Research*, **2013**, 41, 6316-31	20.1	23
46	The association of recombination events in the founding and emergence of subgenogroup evolutionary lineages of human enterovirus 71. *Journal of Virology*, **2012**, 86, 2676-85	6.6	91
45	A twist in the tail: SHAPE mapping of long-range interactions and structural rearrangements of RNA elements involved in HCV replication. *Nucleic Acids Research*, **2012**, 40, 6908-21	20.1	57
44	Recombinants between Deformed wing virus and Varroa destructor virus-1 may prevail in Varroa destructor-infested honeybee colonies. *Journal of General Virology*, **2011**, 92, 156-61	4.9	116
43	Kaposi's sarcoma-associated herpesvirus viral interferon regulatory factor-2 inhibits type 1 interferon signalling by targeting interferon-stimulated gene factor-3. *Journal of General Virology*, **2011**, 92, 2394-2398	4.9	30
42	Replication enhancer elements within the open reading frame of tick-borne encephalitis virus and their evolution within the Flavivirus genus. *Nucleic Acids Research*, **2011**, 39, 7034-48	20.1	19
41	An antisense RNA in a lytic cyanophage links psbA to a gene encoding a homing endonuclease. *ISME Journal*, **2010**, 4, 1121-35	11.9	27
40	Evolutionary dynamics and temporal/geographical correlates of recombination in the human enterovirus echovirus types 9, 11, and 30. *Journal of Virology*, **2010**, 84, 9292-300	6.6	84
39	Transmission networks and population turnover of echovirus 30. *Journal of Virology*, **2009**, 83, 2109-18	6.6	87
38	Bioinformatic and physical characterizations of genome-scale ordered RNA structure in mammalian RNA viruses. *Journal of Virology*, **2008**, 82, 11824-36	6.6	86

37	A hepatitis C virus cis-acting replication element forms a long-range RNA-RNA interaction with upstream RNA sequences in NS5B. *Journal of Virology*, **2008**, 82, 9008-22	6.6	91
36	Identification of a conserved RNA replication element (cre) within the 3Dpol-coding sequence of hepatoviruses. *Journal of Virology*, **2008**, 82, 10118-28	6.6	37
35	Bioinformatic and functional analysis of RNA secondary structure elements among different genera of human and animal caliciviruses. *Nucleic Acids Research*, **2008**, 36, 2530-46	20.1	89
34	Structural and functional insights into the interaction of echoviruses and decay-accelerating factor. *Journal of Biological Chemistry*, **2006**, 281, 5169-77	5.4	26
33	Inhibition of coxsackie B virus infection by soluble forms of its receptors: binding affinities, altered particle formation, and competition with cellular receptors. *Journal of Virology*, **2005**, 79, 12016-24	6.6	55
32	Interactions of decay-accelerating factor (DAF) with haemagglutinating human enteroviruses: utilizing variation in primate DAF to map virus binding sites. *Journal of General Virology*, **2004**, 85, 731-738	4.9	6
31	Detection of genome-scale ordered RNA structure (GORS) in genomes of positive-stranded RNA viruses: Implications for virus evolution and host persistence. *Rna*, **2004**, 10, 1337-51	5.8	170
30	The structure of echovirus type 12 bound to a two-domain fragment of its cellular attachment protein decay-accelerating factor (CD 55). *Journal of Biological Chemistry*, **2004**, 279, 8325-32	5.4	24
29	Structure and function analysis of the poliovirus cis-acting replication element (CRE). *Rna*, **2003**, 9, 124-37	5.8	58
28	Coxsackievirus B3-associated myocardial pathology and viral load reduced by recombinant soluble human decay-accelerating factor in mice. *Laboratory Investigation*, **2003**, 83, 75-85	5.9	34
27	Generation of anti-complement "prodrugs": cleavable reagents for specific delivery of complement regulators to disease sites. *Journal of Biological Chemistry*, **2003**, 278, 36068-76	5.4	17
26	The poliovirus 2C cis-acting replication element-mediated uridylylation of VPg is not required for synthesis of negative-sense genomes. *Journal of General Virology*, **2003**, 84, 2359-2363	4.9	50
25	Mapping CD55 function. The structure of two pathogen-binding domains at 1.7 A. *Journal of Biological Chemistry*, **2003**, 278, 10691-6	5.4	51
24	Thermodynamic and phylogenetic prediction of RNA secondary structures in the coding region of hepatitis C virus. *Rna*, **2002**, 8, 824-41	5.8	104
23	Coxsackie B viruses that use human DAF as a receptor infect pig cells via pig CAR and do not use pig DAF. *Journal of General Virology*, **2002**, 83, 45-52	4.9	18
22	Molecular analysis of the epidermal growth factor-like short consensus repeat domain-mediated protein-protein interactions: dissection of the CD97-CD55 complex. *Journal of Biological Chemistry*, **2001**, 276, 24160-9	5.4	87
21	Echoviruses bind heparan sulfate at the cell surface. *Journal of Virology*, **2001**, 75, 4918-21	6.6	67
20	Identification of a cis-acting replication element within the poliovirus coding region. *Journal of Virology*, **2000**, 74, 4590-600	6.6	203

19	Fatty acid-depleted albumin induces the formation of echovirus A particles. *Journal of Virology*, **2000**, 74, 3410-2	6.6	5
18	Identification of a cis-Acting Replication Element within the Poliovirus Coding Region. *Journal of Virology*, **2000**, 74, 4590-4600	6.6	6
17	Echovirus infection of rhabdomyosarcoma cells is inhibited by antiserum to the complement control protein CD59. *Microbiology (United Kingdom)*, **2000**, 81, 1393-401	2.9	22
16	Crystallization and preliminary X-ray diffraction analysis of a biologically active fragment of CD55. *Acta Crystallographica Section D: Biological Crystallography*, **1999**, 55, 1198-200		8
15	Reverse genetics of picornaviruses. *Advances in Virus Research*, **1999**, 53, 209-28	10.7	11
14	Similar interactions of the poliovirus and rhinovirus 3D polymerases with the 3Ɯntranslated region of rhinovirus 14. *Journal of Virology*, **1999**, 73, 9952-8	6.6	18
13	Mapping the binding domains on decay accelerating factor (DAF) for haemagglutinating enteroviruses: implications for the evolution of a DAF-binding phenotype. *Journal of General Virology*, **1999**, 80 (Pt 12), 3145-3152	4.9	42
12	Cell receptors for picornaviruses as determinants of cell tropism and pathogenesis. *Trends in Microbiology*, **1998**, 6, 198-202	12.4	81
11	Determination of the affinity and kinetic constants for the interaction between the human virus echovirus 11 and its cellular receptor, CD55. *Journal of Biological Chemistry*, **1998**, 273, 30443-7	5.4	64
10	Role for beta2-microglobulin in echovirus infection of rhabdomyosarcoma cells. *Journal of Virology*, **1998**, 72, 5360-5	6.6	48
9	Growth and characterization of poliovirus antigen chimeras. *Methods in Molecular Biology*, **1992**, 8, 257-63	1.4	
8	Monoclonal antibodies to the C4 region of human immunodeficiency virus type 1 gp120: use in topological analysis of a CD4 binding site. *AIDS Research and Human Retroviruses*, **1992**, 8, 451-9	1.6	34
7	Design, construction, and characterization of poliovirus antigen chimeras. *Methods in Enzymology*, **1991**, 203, 386-400	1.7	8
6	Modelling of poliovirus. HIV-1 antigen chimaeras. *FEBS Letters*, **1990**, 271, 194-8	3.8	20
5	Cloning and sequencing of the nifH gene ofDesulfovibrio gigas. *FEMS Microbiology Letters*, **1989**, 61, 73-78	2.9	15
4	An engineered poliovirus chimaera elicits broadly reactive HIV-1 neutralizing antibodies. *Nature*, **1989**, 339, 385-8, 340	50.4	207
3	Deformed Wing Virus spillover from honey bees to bumble bees: a reverse genetic study		4
2	Recombination in enteroviruses is a ubiquitous event independent of sequence homology and RNA structure		3