Paul G Ahlquist

List of Publications by Year in Descending Order

86 papers	6,792 citations	39 h-index	82 g-index
89 ext. papers	7,648 ext. citations	8.7 avg, IF	5.95 L-index

#	Paper	IF	Citations
86	Human cytomegalovirus lytic infection inhibits replication-dependent histone synthesis and requires stem loop binding protein function.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2122174119	11.5	1
85	HIV RGB: Automated Single-Cell Analysis of HIV-1 Rev-Dependent RNA Nuclear Export and Translation Using Image Processing in KNIME. *Viruses*, **2022**, 14, 903	6.2	1
84	Perturbing HIV-1 ribosomal frameshifting frequency reveals a preference for Gag-Pol incorporation into assembling virions. *Journal of Virology*, **2021**, JVI0134921	6.6	1
83	Transmembrane redox regulation of genome replication functions in positive-strand RNA viruses. *Current Opinion in Virology*, **2021**, 47, 25-31	7.5	0
82	ESCRT components ISTL1 andLIP5 are required for tapetal function and pollen viability. *Plant Cell*, **2021**, 33, 2850-2868	11.6	8
81	ZBTB2 represses HIV-1 transcription and is regulated by HIV-1 Vpr and cellular DNA damage responses. *PLoS Pathogens*, **2021**, 17, e1009364	7.6	2
80	Cryo-electron microscopy of nodavirus RNA replication organelles illuminates positive-strand RNA virus genome replication. *Current Opinion in Virology*, **2021**, 51, 74-79	7.5	3
79	Subdomain cryo-EM structure of nodaviral replication protein A crown complex provides mechanistic insights into RNA genome replication. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 18680-18691	11.5	16
78	Coronavirus dons a new crown. *Science*, **2020**, 369, 1306-1307	33.3	7
77	Augmenting subnetwork inference with information extracted from the scientific literature. *PLoS Computational Biology*, **2019**, 15, e1006758	5	
76	Organelle luminal dependence of (+)strand RNA virus replication reveals a hidden druggable target. *Science Advances*, **2018**, 4, eaap8258	14.3	10
75	Intermolecular RNA Recombination Occurs at Different Frequencies in Alternate Forms of Brome Mosaic Virus RNA Replication Compartments. *Viruses*, **2018**, 10,	6.2	8
74	Cowpea chlorotic mottle bromovirus replication proteins support template-selective RNA replication in Saccharomyces cerevisiae. *PLoS ONE*, **2018**, 13, e0208743	3.7	0
73	ESCRT-mediated vesicle concatenation in plant endosomes. *Journal of Cell Biology*, **2017**, 216, 2167-2177	7.3	37
72	Diverse activities of viral cis-acting RNA regulatory elements revealed using multicolor, long-term, single-cell imaging. *Molecular Biology of the Cell*, **2017**, 28, 476-487	3.5	7
71	Human papillomavirus oncogenes reprogram the cervical cancer microenvironment independently of and synergistically with estrogen. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9076-E9085	11.5	39
70	Cryo-electron tomography reveals novel features of a viral RNA replication compartment. *ELife*, **2017**, 6,	8.9	63

69	HIV-1 and M-PMV RNA Nuclear Export Elements Program Viral Genomes for Distinct Cytoplasmic Trafficking Behaviors. *PLoS Pathogens*, **2016**, 12, e1005565	7.6	36
68	Systematic identification of Ctr9 regulome in ER positive breast cancer. *BMC Genomics*, **2016**, 17, 902	4.5	2
67	Host ESCRT proteins are required for bromovirus RNA replication compartment assembly and function. *PLoS Pathogens*, **2015**, 11, e1004742	7.6	62
66	Molecular transitions from papillomavirus infection to cervical precancer and cancer: Role of stromal estrogen receptor signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E3255-64	11.5	149
65	Sulfonation pathway inhibitors block reactivation of latent HIV-1. *Virology*, **2014**, 471-473, 1-12	3.6	7
64	Structural analysis and modeling reveals new mechanisms governing ESCRT-III spiral filament assembly. *Journal of Cell Biology*, **2014**, 206, 763-77	7.3	92
63	CARM1 methylates chromatin remodeling factor BAF155 to enhance tumor progression and metastasis. *Cancer Cell*, **2014**, 25, 21-36	24.3	159
62	Inferring host gene subnetworks involved in viral replication. *PLoS Computational Biology*, **2014**, 10, e1003626		5
61	Cooperativity among Rev-associated nuclear export signals regulates HIV-1 gene expression and is a determinant of virus species tropism. *Journal of Virology*, **2014**, 88, 14207-21	6.6	17
60	Genome-wide analysis of host factors in nodavirus RNA replication. *PLoS ONE*, **2014**, 9, e95799	3.7	8
59	ZASC1 stimulates HIV-1 transcription elongation by recruiting P-TEFb and TAT to the LTR promoter. *PLoS Pathogens*, **2013**, 9, e1003712	7.6	9
58	Limited agreement of independent RNAi screens for virus-required host genes owes more to false-negative than false-positive factors. *PLoS Computational Biology*, **2013**, 9, e1003235	5	35
57	Role of host reticulon proteins in rearranging membranes for positive-strand RNA virus replication. *Current Opinion in Microbiology*, **2012**, 15, 519-24	7.9	38
56	Novel antivirals inhibit early steps in HPV infection. *Antiviral Research*, **2012**, 93, 280-287	10.8	6
55	Host acyl coenzyme A binding protein regulates replication complex assembly and activity of a positive-strand RNA virus. *Journal of Virology*, **2012**, 86, 5110-21	6.6	32
54	Bromovirus RNA replication compartment formation requires concerted action of 1a's self-interacting RNA capping and helicase domains. *Journal of Virology*, **2012**, 86, 821-34	6.6	31
53	Systematic identification of novel, essential host genes affecting bromovirus RNA replication. *PLoS ONE*, **2011**, 6, e23988	3.7	33
52	Top 10 plant viruses in molecular plant pathology. *Molecular Plant Pathology*, **2011**, 12, 938-54	5.7	637

51	Intersection of the multivesicular body pathway and lipid homeostasis in RNA replication by a positive-strand RNA virus. *Journal of Virology*, **2011**, 85, 5494-503	6.6	31
50	Nodavirus-induced membrane rearrangement in replication complex assembly requires replicase protein a, RNA templates, and polymerase activity. *Journal of Virology*, **2010**, 84, 12492-503	6.6	38
49	Membrane-shaping host reticulon proteins play crucial roles in viral RNA replication compartment formation and function. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 16291-6	11.5	117
48	Cellular transcription factor ZASC1 regulates murine leukemia virus transcription. *Journal of Virology*, **2010**, 84, 7473-83	6.6	9
47	Cytoplasmic viral replication complexes. *Cell Host and Microbe*, **2010**, 8, 77-85	23.4	259
46	Organelle-like membrane compartmentalization of positive-strand RNA virus replication factories. *Annual Review of Microbiology*, **2010**, 64, 241-56	17.5	316
45	5Tcis elements direct nodavirus RNA1 recruitment to mitochondrial sites of replication complex formation. *Journal of Virology*, **2009**, 83, 2976-88	6.6	26
44	An amphipathic alpha-helix controls multiple roles of brome mosaic virus protein 1a in RNA replication complex assembly and function. *PLoS Pathogens*, **2009**, 5, e1000351	7.6	71
43	Establishment of human papillomavirus infection requires cell cycle progression. *PLoS Pathogens*, **2009**, 5, e1000318	7.6	216
42	The host cell sulfonation pathway contributes to retroviral infection at a step coincident with provirus establishment. *PLoS Pathogens*, **2008**, 4, e1000207	7.6	26
41	Three-dimensional analysis of a viral RNA replication complex reveals a virus-induced mini-organelle. *PLoS Biology*, **2007**, 5, e220	9.7	223
40	Nodavirus RNA replication protein a induces membrane association of genomic RNA. *Journal of Virology*, **2007**, 81, 4633-44	6.6	38
39	Interactions between brome mosaic virus RNAs and cytoplasmic processing bodies. *Journal of Virology*, **2007**, 81, 9759-68	6.6	63
38	Inducible yeast system for Viral RNA recombination reveals requirement for an RNA replication signal on both parental RNAs. *Journal of Virology*, **2006**, 80, 8316-28	6.6	14
37	Parallels among positive-strand RNA viruses, reverse-transcribing viruses and double-stranded RNA viruses. *Nature Reviews Microbiology*, **2006**, 4, 371-82	22.2	217
36	Viral and host determinants of RNA virus vector replication and expression. *Vaccine*, **2005**, 23, 1784-7	4.1	23
35	Virus evolution: fitting lifestyles to a T. *Current Biology*, **2005**, 15, R465-7	6.3	16
34	Detecting protein-protein interaction in live yeast by flow cytometry. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2005**, 63, 77-86	4.6	18

33	High-throughput isolation of Saccharomyces cerevisiae RNA. *BioTechniques*, **2005**, 38, 868, 870	2.5	6
32	Isolation of cell lines that show novel, murine leukemia virus-specific blocks to early steps of retroviral replication. *Journal of Virology*, **2005**, 79, 12969-78	6.6	19
31	Brome mosaic virus 1a nucleoside triphosphatase/helicase domain plays crucial roles in recruiting RNA replication templates. *Journal of Virology*, **2005**, 79, 13747-58	6.6	77
30	In vivo self-interaction of nodavirus RNA replicase protein a revealed by fluorescence resonance energy transfer. *Journal of Virology*, **2005**, 79, 8909-19	6.6	43
29	Mutual interference between genomic RNA replication and subgenomic mRNA transcription in brome mosaic virus. *Journal of Virology*, **2005**, 79, 1438-51	6.6	24
28	Production of infectious human papillomavirus independently of viral replication and epithelial cell differentiation. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 9311-6	11.5	95
27	Alternate, virus-induced membrane rearrangements support positive-strand RNA virus genome replication. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 11263-8	11.5	141
26	Yeast Lsm1p-7p/Pat1p deadenylation-dependent mRNA-decapping factors are required for brome mosaic virus genomic RNA translation. *Molecular and Cellular Biology*, **2003**, 23, 4094-106	4.8	80
25	Membrane synthesis, specific lipid requirements, and localized lipid composition changes associated with a positive-strand RNA virus RNA replication protein. *Journal of Virology*, **2003**, 77, 12819-28	6.6	91
24	Brome mosaic virus RNA replication: revealing the role of the host in RNA virus replication. *Annual Review of Phytopathology*, **2003**, 41, 77-98	10.8	136
23	Host factors in positive-strand RNA virus genome replication. *Journal of Virology*, **2003**, 77, 8181-6	6.6	379
22	Systematic, genome-wide identification of host genes affecting replication of a positive-strand RNA virus. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 15764-9	11.5	217
21	Engineered retargeting of viral RNA replication complexes to an alternative intracellular membrane. *Journal of Virology*, **2003**, 77, 12193-202	6.6	73
20	An alternate pathway for recruiting template RNA to the brome mosaic virus RNA replication complex. *Journal of Virology*, **2003**, 77, 2568-77	6.6	34
19	Mutation of host DnaJ homolog inhibits brome mosaic virus negative-strand RNA synthesis. *Journal of Virology*, **2003**, 77, 2990-7	6.6	77
18	Flock house virus RNA polymerase is a transmembrane protein with amino-terminal sequences sufficient for mitochondrial localization and membrane insertion. *Journal of Virology*, **2002**, 76, 9856-67	6.6	99
17	Long-distance base pairing in flock house virus RNA1 regulates subgenomic RNA3 synthesis and RNA2 replication. *Journal of Virology*, **2002**, 76, 3905-19	6.6	75
16	RNA-dependent RNA polymerases, viruses, and RNA silencing. *Science*, **2002**, 296, 1270-3	33.3	344

15	A positive-strand RNA virus replication complex parallels form and function of retrovirus capsids. *Molecular Cell*, **2002**, 9, 505-14	17.6	356
14	Identification of sequences in Brome mosaic virus replicase protein 1a that mediate association with endoplasmic reticulum membranes. *Journal of Virology*, **2001**, 75, 12370-81	6.6	96
13	Mutation of host delta9 fatty acid desaturase inhibits brome mosaic virus RNA replication between template recognition and RNA synthesis. *Journal of Virology*, **2001**, 75, 2097-106	6.6	113
12	Brome mosaic virus Protein 1a recruits viral RNA2 to RNA replication through a 5Tproximal RNA2 signal. *Journal of Virology*, **2001**, 75, 3207-19	6.6	96
11	Flock house virus RNA replicates on outer mitochondrial membranes in Drosophila cells. *Journal of Virology*, **2001**, 75, 11664-76	6.6	176
10	Helicase and capping enzyme active site mutations in brome mosaic virus protein 1a cause defects in template recruitment, negative-strand RNA synthesis, and viral RNA capping. *Journal of Virology*, **2000**, 74, 8803-11	6.6	84
9	Brome mosaic virus polymerase-like protein 2a is directed to the endoplasmic reticulum by helicase-like viral protein 1a. *Journal of Virology*, **2000**, 74, 4310-8	6.6	118
8	The 3a cell-to-cell movement gene is dispensable for cell-to-cell transmission of brome mosaic virus RNA replicons in yeast but retained over 10(45)-fold amplification. *Journal of General Virology*, **2000** , 81, 2307-2311	4.9	3
7	Putative RNA capping activities encoded by brome mosaic virus: methylation and covalent binding of guanylate by replicase protein 1a. *Journal of Virology*, **1999**, 73, 10061-9	6.6	89
6	Brome mosaic virus RNA replication proteins 1a and 2a colocalize and 1a independently localizes on the yeast endoplasmic reticulum. *Journal of Virology*, **1999**, 73, 10303-9	6.6	111
5	A brome mosaic virus intergenic RNA3 replication signal functions with viral replication protein 1a to dramatically stabilize RNA in vivo. *Journal of Virology*, **1999**, 73, 2622-32	6.6	123
4	cis-Acting Signals in Bromovirus RNA Replication and Gene Expression: Networking with Viral Proteins and Host Factors. *Seminars in Virology*, **1997**, 8, 221-230		34
3	Gene amplification and expression by RNA viruses and potential for further application to plant gene transfer. *Physiologia Plantarum*, **1990**, 79, 163-167	4.6	12
2	Chloroplast import characteristics of chimeric proteins. *Plant Molecular Biology*, **1989**, 12, 13-8	4.6	22
1	Two-step binding of eukaryotic ribosomes to brome mosaic virus RNA3. *Nature*, **1979**, 281, 277-82	50.4	67