

John T Patton

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

131
papers

7,896
citations

45
h-index

86
g-index

142
ext. papers

8,826
ext. citations

6.3
avg, IF

5.93
L-index

#	Paper	IF	Citations
131	Rotavirus as an Expression Platform of Domains of the SARS-CoV-2 Spike Protein. <i>Vaccines</i> , 2021 , 9,	5.3	6
130	Simplified Reverse Genetics Method to Recover Recombinant Rotaviruses Expressing Reporter Proteins. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	4
129	Rotaviruses as Neonatal Vaccine Expression Vectors against Other Enteric Pathogens. <i>Proceedings (mdpi)</i> , 2020 , 50, 53	0.3	3
128	Expression of Separate Heterologous Proteins from the Rotavirus NSP3 Genome Segment Using a Translational 2A Stop-Restart Element. <i>Journal of Virology</i> , 2020 , 94,	6.6	9
127	Rotavirus Species B Encodes a Functional Fusion-Associated Small Transmembrane Protein. <i>Journal of Virology</i> , 2019 , 93,	6.6	11
126	Collection of Recombinant Rotaviruses Expressing Fluorescent Reporter Proteins. <i>Microbiology Resource Announcements</i> , 2019 , 8,	1.3	11
125	Rotavirus Calcium Dysregulation Manifests as Dynamic Calcium Signaling in the Cytoplasm and Endoplasmic Reticulum. <i>Scientific Reports</i> , 2019 , 9, 10822	4.9	23
124	Generation of Recombinant Rotavirus Expressing NSP3-UnaG Fusion Protein by a Simplified Reverse Genetics System. <i>Journal of Virology</i> , 2019 , 93,	6.6	22
123	Multiple Introductions and Antigenic Mismatch with Vaccines May Contribute to Increased Predominance of G12P[8] Rotaviruses in the United States. <i>Journal of Virology</i> , 2019 , 93,	6.6	20
122	Genome packaging in multi-segmented dsRNA viruses: distinct mechanisms with similar outcomes. <i>Current Opinion in Virology</i> , 2018 , 33, 106-112	7.5	37
121	Vesicle-Cloaked Virus Clusters Are Optimal Units for Inter-organismal Viral Transmission. <i>Cell Host and Microbe</i> , 2018 , 24, 208-220.e8	23.4	129
120	Drebrin restricts rotavirus entry by inhibiting dynamin-mediated endocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3642-E3651	11.5	35
119	Rotavirus NSP1 Requires Casein Kinase II-Mediated Phosphorylation for Hijacking of Cullin-RING Ligases. <i>MBio</i> , 2017 , 8,	7.8	17
118	Shutdown of interferon signaling by a viral-hijacked E3 ubiquitin ligase. <i>Microbial Cell</i> , 2017 , 4, 387-389	3.9	10
117	Modeling of the rotavirus group C capsid predicts a surface topology distinct from other rotavirus species. <i>Virology</i> , 2016 , 487, 150-62	3.6	6
116	Comparative Proteomics Reveals Strain-Specific β TrCP Degradation via Rotavirus NSP1 Hijacking a Host Cullin-3-Rbx1 Complex. <i>PLoS Pathogens</i> , 2016 , 12, e1005929	7.6	38
115	Rotavirus Replication and Reverse Genetics 2016 , 121-143		3

114	Reassortment in segmented RNA viruses: mechanisms and outcomes. <i>Nature Reviews Microbiology</i> , 2016 , 14, 448-60	22.2	166
113	Prevalence of groups A and C rotavirus antibodies in infants with biliary atresia and cholestatic controls. <i>Journal of Pediatrics</i> , 2015 , 166, 79-84	3.6	15
112	Rotavirus Infects Human Biliary Epithelial Cells and Stimulates Secretion of Cytokines IL-6 and IL-8 via MAPK Pathway. <i>BioMed Research International</i> , 2015 , 2015, 697238	3	13
111	Silencing the alarms: Innate immune antagonism by rotavirus NSP1 and VP3. <i>Virology</i> , 2015 , 479-480, 75-84	3.6	34
110	Structural basis for 2F5Foligoadenylate binding and enzyme activity of a viral RNase L antagonist. <i>Journal of Virology</i> , 2015 , 89, 6633-45	6.6	20
109	Putative E3 ubiquitin ligase of human rotavirus inhibits NF- κ B activation by using molecular mimicry to target β TrCP. <i>MBio</i> , 2015 , 6,	7.8	40
108	Molecular epidemiology of contemporary G2P[4] human rotaviruses cocirculating in a single U.S. community: footprints of a globally transitioning genotype. <i>Journal of Virology</i> , 2014 , 88, 3789-801	6.6	43
107	Regulation of rotavirus polymerase activity by inner capsid proteins. <i>Current Opinion in Virology</i> , 2014 , 9, 31-8	7.5	11
106	Analysis of human rotaviruses from a single location over an 18-year time span suggests that protein coadaptation influences gene constellations. <i>Journal of Virology</i> , 2014 , 88, 9842-63	6.6	20
105	Absence of genetic differences among G10P[11] rotaviruses associated with asymptomatic and symptomatic neonatal infections in Vellore, India. <i>Journal of Virology</i> , 2014 , 88, 9060-71	6.6	10
104	Predicted structure and domain organization of rotavirus capping enzyme and innate immune antagonist VP3. <i>Journal of Virology</i> , 2014 , 88, 9072-85	6.6	25
103	Mutations in the rotavirus spike protein VP4 reduce trypsin sensitivity but not viral spread. <i>Journal of General Virology</i> , 2013 , 94, 1296-1300	4.9	6
102	Comparative analysis of Reoviridae reverse genetics methods. <i>Methods</i> , 2013 , 59, 199-206	4.6	7
101	The battle between rotavirus and its host for control of the interferon signaling pathway. <i>PLoS Pathogens</i> , 2013 , 9, e1003064	7.6	78
100	Ulnar collateral ligament reconstruction using bisuspensory fixation: a biomechanical comparison with the docking technique. <i>American Journal of Sports Medicine</i> , 2013 , 41, 1158-64	6.8	30
99	Homologous 2F5Fphosphodiesterases from disparate RNA viruses antagonize antiviral innate immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13114-9	11.5	96
98	Rotavirus NSP1 mediates degradation of interferon regulatory factors through targeting of the dimerization domain. <i>Journal of Virology</i> , 2013 , 87, 9813-21	6.6	50
97	Generation of genetically stable recombinant rotaviruses containing novel genome rearrangements and heterologous sequences by reverse genetics. <i>Journal of Virology</i> , 2013 , 87, 6211-20	6.6	31

96	Mutational analysis of residues involved in nucleotide and divalent cation stabilization in the rotavirus RNA-dependent RNA polymerase catalytic pocket. <i>Virology</i> , 2012 , 431, 12-20	3.6	16
95	Rotavirus RNA polymerases resolve into two phylogenetically distinct classes that differ in their mechanism of template recognition. <i>Virology</i> , 2012 , 431, 50-7	3.6	14
94	Interactions among capsid proteins orchestrate rotavirus particle functions. <i>Current Opinion in Virology</i> , 2012 , 2, 373-9	7.5	28
93	Genetic analyses reveal differences in the VP7 and VP4 antigenic epitopes between human rotaviruses circulating in Belgium and rotaviruses in Rotarix and RotaTeq. <i>Journal of Clinical Microbiology</i> , 2012 , 50, 966-76	9.7	117
92	Diversity and relationships of cocirculating modern human rotaviruses revealed using large-scale comparative genomics. <i>Journal of Virology</i> , 2012 , 86, 9148-62	6.6	38
91	Crystallographic Analysis of Rotavirus NSP2-RNA Complex Reveals Specific Recognition of 5TGG Sequence for RTPase Activity. <i>Journal of Virology</i> , 2012 , 86, 10547-57	6.6	22
90	Structural insights into the coupling of virion assembly and rotavirus replication. <i>Nature Reviews Microbiology</i> , 2012 , 10, 165-77	22.2	134
89	Vaccine-derived NSP2 segment in rotaviruses from vaccinated children with gastroenteritis in Nicaragua. <i>Infection, Genetics and Evolution</i> , 2012 , 12, 1282-94	4.5	49
88	Rotavirus variant replicates efficiently although encoding an aberrant NSP3 that fails to induce nuclear localization of poly(A)-binding protein. <i>Journal of General Virology</i> , 2012 , 93, 1483-1494	4.9	22
87	Rotavirus diversity and evolution in the post-vaccine world. <i>Discovery Medicine</i> , 2012 , 13, 85-97	2.5	72
86	Assortment and packaging of the segmented rotavirus genome. <i>Trends in Microbiology</i> , 2011 , 19, 136-44	12.4	88
85	Intra-genotypic diversity of archival G4P[8] human rotaviruses from Washington, DC. <i>Infection, Genetics and Evolution</i> , 2011 , 11, 1586-94	4.5	26
84	Uniformity of rotavirus strain nomenclature proposed by the Rotavirus Classification Working Group (RCWG). <i>Archives of Virology</i> , 2011 , 156, 1397-413	2.6	699
83	Diversity of interferon antagonist activities mediated by NSP1 proteins of different rotavirus strains. <i>Journal of Virology</i> , 2011 , 85, 1970-9	6.6	63
82	Residues of the rotavirus RNA-dependent RNA polymerase template entry tunnel that mediate RNA recognition and genome replication. <i>Journal of Virology</i> , 2011 , 85, 1958-69	6.6	15
81	Rotavirus VP2 core shell regions critical for viral polymerase activation. <i>Journal of Virology</i> , 2011 , 85, 3095-105	6.6	49
80	Simian rotaviruses possess divergent gene constellations that originated from interspecies transmission and reassortment. <i>Journal of Virology</i> , 2010 , 84, 2013-26	6.6	54
79	Dual selection mechanisms drive efficient single-gene reverse genetics for rotavirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18652-7	11.5	64

78	Mechanism of intraparticle synthesis of the rotavirus double-stranded RNA genome. <i>Journal of Biological Chemistry</i> , 2010 , 285, 18123-8	5.4	40
77	Primed for Discovery: Atomic-Resolution Cryo-EM Structure of a Reovirus Entry Intermediate. <i>Viruses</i> , 2010 , 2, 1340-6	6.2	2
76	Functions of the Rotavirus RNA Polymerase in Virus Replication 2010 , 31-40		
75	Complete genome sequence analysis of candidate human rotavirus vaccine strains RV3 and 116E. <i>Virology</i> , 2010 , 405, 201-13	3.6	32
74	Evolutionary dynamics of human rotaviruses: balancing reassortment with preferred genome constellations. <i>PLoS Pathogens</i> , 2009 , 5, e1000634	7.6	153
73	Rotavirus antagonism of the innate immune response. <i>Viruses</i> , 2009 , 1, 1035-56	6.2	18
72	Shared and group-specific features of the rotavirus RNA polymerase reveal potential determinants of gene reassortment restriction. <i>Journal of Virology</i> , 2009 , 83, 6135-48	6.6	38
71	The ins and outs of four-tunneled Reoviridae RNA-dependent RNA polymerases. <i>Current Opinion in Structural Biology</i> , 2009 , 19, 775-82	8.1	42
70	Core-Associated Genome Replication Mechanisms of dsRNA Viruses 2009 , 201-224		
69	Culturing, storage, and quantification of rotaviruses. <i>Current Protocols in Microbiology</i> , 2009 , Chapter 15, Unit 15C.3	7.1	96
68	Rotavirus Antagonism of the Host Innate Immune Response 2009 , 655-677		
67	Mechanism for coordinated RNA packaging and genome replication by rotavirus polymerase VP1. <i>Structure</i> , 2008 , 16, 1678-88	5.2	130
66	Group A human rotavirus genomics: evidence that gene constellations are influenced by viral protein interactions. <i>Journal of Virology</i> , 2008 , 82, 11106-16	6.6	130
65	Full genome-based classification of rotaviruses reveals a common origin between human Wa-Like and porcine rotavirus strains and human DS-1-like and bovine rotavirus strains. <i>Journal of Virology</i> , 2008 , 82, 3204-19	6.6	661
64	Molecular characterization of a subgroup specificity associated with the rotavirus inner capsid protein VP2. <i>Journal of Virology</i> , 2008 , 82, 2752-64	6.6	18
63	Recommendations for the classification of group A rotaviruses using all 11 genomic RNA segments. <i>Archives of Virology</i> , 2008 , 153, 1621-9	2.6	523
62	Non-structural protein NSP2 induces heterotypic antibody responses during primary rotavirus infection and reinfection in children. <i>Journal of Medical Virology</i> , 2008 , 80, 1090-8	19.7	14
61	Genome heterogeneity of SA11 rotavirus due to reassortment with "O" agent. <i>Virology</i> , 2007 , 359, 415-246		28

60	An ATPase activity associated with the rotavirus phosphoprotein NSP5. <i>Virology</i> , 2007 , 369, 389-99	3.6	11
59	Rotavirus NSP1 inhibits expression of type I interferon by antagonizing the function of interferon regulatory factors IRF3, IRF5, and IRF7. <i>Journal of Virology</i> , 2007 , 81, 4473-81	6.6	164
58	Crystallographic and biochemical analysis of rotavirus NSP2 with nucleotides reveals a nucleoside diphosphate kinase-like activity. <i>Journal of Virology</i> , 2007 , 81, 12272-84	6.6	36
57	Viral factories in rotavirus-infected cells: interactions between protein and RNA components. <i>Future Virology</i> , 2007 , 2, 157-161	2.4	
56	Coupling of rotavirus genome replication and capsid assembly. <i>Advances in Virus Research</i> , 2007 , 69, 167-201	201	37
55	A base-specific recognition signal in the 5Tconsensus sequence of rotavirus plus-strand RNAs promotes replication of the double-stranded RNA genome segments. <i>Rna</i> , 2006 , 12, 133-46	5.8	38
54	Structure-function analysis of rotavirus NSP2 octamer by using a novel complementation system. <i>Journal of Virology</i> , 2006 , 80, 7984-94	6.6	48
53	Critical role for Cryopyrin/Nalp3 in activation of caspase-1 in response to viral infection and double-stranded RNA. <i>Journal of Biological Chemistry</i> , 2006 , 281, 36560-8	5.4	525
52	Histidine triad-like motif of the rotavirus NSP2 octamer mediates both RTPase and NTPase activities. <i>Journal of Molecular Biology</i> , 2006 , 362, 539-54	6.5	38
51	Rotavirus nonstructural protein 1 subverts innate immune response by inducing degradation of IFN regulatory factor 3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 4114-9	11.5	201
50	Rotavirus glycoprotein NSP4 is a modulator of viral transcription in the infected cell. <i>Journal of Virology</i> , 2005 , 79, 15165-74	6.6	37
49	Rotavirus replication: plus-sense templates for double-stranded RNA synthesis are made in viroplasm. <i>Journal of Virology</i> , 2004 , 78, 7763-74	6.6	175
48	Replication and transcription of the rotavirus genome. <i>Current Pharmaceutical Design</i> , 2004 , 10, 3769-77	3,3	21
47	Role of the histidine triad-like motif in nucleotide hydrolysis by the rotavirus RNA-packaging protein NSP2. <i>Journal of Biological Chemistry</i> , 2004 , 279, 10624-33	5.4	33
46	Homotypic and heterotypic serum isotype-specific antibody responses to rotavirus nonstructural protein 4 and viral protein (VP) 4, VP6, and VP7 in infants who received selected live oral rotavirus vaccines. <i>Journal of Infectious Diseases</i> , 2004 , 189, 1833-45	7	25
45	Cell-line-induced mutation of the rotavirus genome alters expression of an IRF3-interacting protein. <i>EMBO Journal</i> , 2004 , 23, 4072-81	13	15
44	Translation enhancer in the 3' untranslated region of rotavirus gene 6 mRNA promotes expression of the major capsid protein VP6. <i>Archives of Virology</i> , 2004 , 149, 303-21	2.6	9
43	Nonstructural proteins involved in genome packaging and replication of rotaviruses and other members of the Reoviridae. <i>Virus Research</i> , 2004 , 101, 57-66	6.4	61

42	II, 4. Rotavirus genome replication: role of the RNA-binding proteins. <i>Perspectives in Medical Virology</i> , 2003 , 9, 165-183		6
41	Rotavirus NSP2 interferes with the core lattice protein VP2 in initiation of minus-strand synthesis. <i>Virology</i> , 2003 , 313, 261-73	3.6	10
40	Template recognition and formation of initiation complexes by the replicase of a segmented double-stranded RNA virus. <i>Journal of Biological Chemistry</i> , 2003 , 278, 32673-82	5.4	51
39	Analysis of a temperature-sensitive mutant rotavirus indicates that NSP2 octamers are the functional form of the protein. <i>Journal of Virology</i> , 2002 , 76, 7082-93	6.6	39
38	Rotavirus protein involved in genome replication and packaging exhibits a HIT-like fold. <i>Nature</i> , 2002 , 417, 311-5	50.4	84
37	RNA-binding activity of the rotavirus phosphoprotein NSP5 includes affinity for double-stranded RNA. <i>Journal of Virology</i> , 2002 , 76, 5291-9	6.6	44
36	Rotavirus RNA replication and gene expression. <i>Novartis Foundation Symposium</i> , 2001 , 238, 64-77; discussion 77-81		27
35	Rotavirus assembly - interaction of surface protein VP7 with middle layer protein VP6. <i>Archives of Virology</i> , 2001 , 146, 1155-71	2.6	6
34	Multimers of the bluetongue virus nonstructural protein, NS2, possess nucleotidyl phosphatase activity: similarities between NS2 and rotavirus NSP2. <i>Virology</i> , 2001 , 280, 221-31	3.6	38
33	Features of the 3'consensus sequence of rotavirus mRNAs critical to minus strand synthesis. <i>Virology</i> , 2001 , 282, 221-9	3.6	35
32	Identification of sequences in rotavirus mRNAs important for minus strand synthesis using antisense oligonucleotides. <i>Virology</i> , 2001 , 288, 71-80	3.6	14
31	Rotavirus nonstructural protein NSP2 self-assembles into octamers that undergo ligand-induced conformational changes. <i>Journal of Biological Chemistry</i> , 2001 , 276, 9679-87	5.4	81
30	Effect of intragenic rearrangement and changes in the 3'consensus sequence on NSP1 expression and rotavirus replication. <i>Journal of Virology</i> , 2001 , 75, 2076-86	6.6	51
29	Identification and characterization of the helix-destabilizing activity of rotavirus nonstructural protein NSP2. <i>Journal of Virology</i> , 2001 , 75, 4519-27	6.6	75
28	Reverse transcriptase adds nontemplated nucleotides to cDNAs during 5'RT-PCR and primer extension. <i>BioTechniques</i> , 2001 , 30, 574-80, 582	2.5	44
27	Genome replication and packaging of segmented double-stranded RNA viruses. <i>Virology</i> , 2000 , 277, 217-25	3.6	119
26	De novo synthesis of minus strand RNA by the rotavirus RNA polymerase in a cell-free system involves a novel mechanism of initiation. <i>Rna</i> , 2000 , 6, 1455-67	5.8	50
25	A four-nucleotide translation enhancer in the 3' terminal consensus sequence of the nonpolyadenylated mRNAs of rotavirus. <i>Rna</i> , 2000 , 6, 814-25	5.8	36

24	Virus replication. <i>Methods in Molecular Medicine</i> , 2000 , 34, 33-66		17
23	Multimers formed by the rotavirus nonstructural protein NSP2 bind to RNA and have nucleoside triphosphatase activity. <i>Journal of Virology</i> , 1999 , 73, 9934-43	6.6	97
22	Open reading frame in rotavirus mRNA specifically promotes synthesis of double-stranded RNA: template size also affects replication efficiency. <i>Virology</i> , 1999 , 264, 167-80	3.6	17
21	Rotavirus open cores catalyze 5Tcapping and methylation of exogenous RNA: evidence that VP3 is a methyltransferase. <i>Virology</i> , 1999 , 265, 120-30	3.6	72
20	Synthesis and biological evaluation of a potent E-selectin antagonist. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 4909-13	8.3	27
19	RNA-binding and capping activities of proteins in rotavirus open cores. <i>Journal of Virology</i> , 1999 , 73, 1388-91	3.6	46
18	Rotavirus RNA replication requires a single-stranded 3Tend for efficient minus-strand synthesis. <i>Journal of Virology</i> , 1998 , 72, 7387-96	6.6	63
17	[24] Using the RNA-capture assay to assess the RNA-binding activity of viral proteins. <i>Methods in Molecular Genetics</i> , 1995 , 7, 373-387		1
16	The carboxyl-half of the rotavirus nonstructural protein NS53 (NSP1) is not required for virus replication. <i>Virology</i> , 1994 , 198, 567-76	3.6	51
15	The rotavirus RNA-binding protein NS35 (NSP2) forms 10S multimers and interacts with the viral RNA polymerase. <i>Virology</i> , 1994 , 202, 803-13	3.6	63
14	Nucleotide and amino acid sequence analysis of the rotavirus nonstructural RNA-binding protein NS35. <i>Virology</i> , 1993 , 192, 438-46	3.6	43
13	Comparative analysis of the rotavirus NS53 gene: conservation of basic and cysteine-rich regions in the protein and possible stem-loop structures in the RNA. <i>Virology</i> , 1993 , 196, 372-8	3.6	60
12	The rotavirus nonstructural protein, NS35, possesses RNA-binding activity in vitro and in vivo. <i>Virology</i> , 1992 , 191, 698-708	3.6	53
11	Rotavirus morphogenesis: domains in the major inner capsid protein essential for binding to single-shelled particles and for trimerization. <i>Virology</i> , 1991 , 180, 697-708	3.6	32
10	Evidence for equimolar synthesis of double-strand RNA and minus-strand RNA in rotavirus-infected cells. <i>Virus Research</i> , 1990 , 17, 199-208	6.4	22
9	Characterization of rotavirus replication intermediates: a model for the assembly of single-shelled particles. <i>Virology</i> , 1989 , 172, 616-27	3.6	121
8	Structure and protein composition of the rotavirus replicase particle. <i>Virology</i> , 1988 , 166, 358-65	3.6	50
7	The switch from transcription to replication of a negative-strand RNA virus. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1987 , 52, 367-71	3.9	12

6	Characterization of subviral particles in cells infected with simian rotavirus SA11. <i>Virology</i> , 1986 , 155, 655-65	3.6	44
5	Synthesis of simian rotavirus SA11 double-stranded RNA in a cell-free system. <i>Virus Research</i> , 1986 , 6, 217-33	6.4	44
4	Electrophoretic separation of the plus and minus strands of rotavirus SA11 double-stranded RNAs. <i>Journal of Virological Methods</i> , 1986 , 13, 185-90	2.6	17
3	Replication of nondefective parvoviruses: lack of a virion-associated DNA polymerase. <i>Journal of Virology</i> , 1978 , 28, 20-7	6.6	7
2	Group B rotavirus encodes a functional fusion-associated small transmembrane (FAST) protein		1
1	Innate Immune Responses Elicited by Reovirus and Rotavirus403-422		