

# John T Patton

## List of Publications by Citations

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131  
papers

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86  
g-index

142  
ext. papers

8,826  
ext. citations

6.3  
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5.93  
L-index

#	Paper	IF	Citations
131	Uniformity of rotavirus strain nomenclature proposed by the Rotavirus Classification Working Group (RCWG). <i>Archives of Virology</i> , <b>2011</b> , 156, 1397-413	2.6	699
130	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> , <b>2008</b> , 82, 3204-19	6.6	661
129	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> , <b>2006</b> , 281, 36560-8	5.4	525
128	Recommendations for the classification of group A rotaviruses using all 11 genomic RNA segments. <i>Archives of Virology</i> , <b>2008</b> , 153, 1621-9	2.6	523
127	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> , <b>2005</b> , 102, 4114-9	11.5	201
126	Rotavirus replication: plus-sense templates for double-stranded RNA synthesis are made in viroplasm. <i>Journal of Virology</i> , <b>2004</b> , 78, 7763-74	6.6	175
125	Reassortment in segmented RNA viruses: mechanisms and outcomes. <i>Nature Reviews Microbiology</i> , <b>2016</b> , 14, 448-60	22.2	166
124	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> , <b>2007</b> , 81, 4473-81	6.6	164
123	Evolutionary dynamics of human rotaviruses: balancing reassortment with preferred genome constellations. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000634	7.6	153
122	Structural insights into the coupling of virion assembly and rotavirus replication. <i>Nature Reviews Microbiology</i> , <b>2012</b> , 10, 165-77	22.2	134
121	Mechanism for coordinated RNA packaging and genome replication by rotavirus polymerase VP1. <i>Structure</i> , <b>2008</b> , 16, 1678-88	5.2	130
120	Group A human rotavirus genomics: evidence that gene constellations are influenced by viral protein interactions. <i>Journal of Virology</i> , <b>2008</b> , 82, 11106-16	6.6	130
119	Vesicle-Cloaked Virus Clusters Are Optimal Units for Inter-organismal Viral Transmission. <i>Cell Host and Microbe</i> , <b>2018</b> , 24, 208-220.e8	23.4	129
118	Characterization of rotavirus replication intermediates: a model for the assembly of single-shelled particles. <i>Virology</i> , <b>1989</b> , 172, 616-27	3.6	121
117	Genome replication and packaging of segmented double-stranded RNA viruses. <i>Virology</i> , <b>2000</b> , 277, 217-25	3.5	119
116	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> , <b>2012</b> , 50, 966-76	9.7	117
115	Multimers formed by the rotavirus nonstructural protein NSP2 bind to RNA and have nucleoside triphosphatase activity. <i>Journal of Virology</i> , <b>1999</b> , 73, 9934-43	6.6	97

114	Homologous 2'5'phosphodiesterases from disparate RNA viruses antagonize antiviral innate immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 13114-9	11.5	96
113	Culturing, storage, and quantification of rotaviruses. <i>Current Protocols in Microbiology</i> , <b>2009</b> , Chapter 15, Unit 15C.3	7.1	96
112	Assortment and packaging of the segmented rotavirus genome. <i>Trends in Microbiology</i> , <b>2011</b> , 19, 136-44	12.4	88
111	Rotavirus protein involved in genome replication and packaging exhibits a HIT-like fold. <i>Nature</i> , <b>2002</b> , 417, 311-5	50.4	84
110	Rotavirus nonstructural protein NSP2 self-assembles into octamers that undergo ligand-induced conformational changes. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 9679-87	5.4	81
109	The battle between rotavirus and its host for control of the interferon signaling pathway. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003064	7.6	78
108	Identification and characterization of the helix-destabilizing activity of rotavirus nonstructural protein NSP2. <i>Journal of Virology</i> , <b>2001</b> , 75, 4519-27	6.6	75
107	Rotavirus open cores catalyze 5'capping and methylation of exogenous RNA: evidence that VP3 is a methyltransferase. <i>Virology</i> , <b>1999</b> , 265, 120-30	3.6	72
106	Rotavirus diversity and evolution in the post-vaccine world. <i>Discovery Medicine</i> , <b>2012</b> , 13, 85-97	2.5	72
105	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> , <b>2010</b> , 107, 18652-7	11.5	64
104	Diversity of interferon antagonist activities mediated by NSP1 proteins of different rotavirus strains. <i>Journal of Virology</i> , <b>2011</b> , 85, 1970-9	6.6	63
103	The rotavirus RNA-binding protein NS35 (NSP2) forms 10S multimers and interacts with the viral RNA polymerase. <i>Virology</i> , <b>1994</b> , 202, 803-13	3.6	63
102	Rotavirus RNA replication requires a single-stranded 3'end for efficient minus-strand synthesis. <i>Journal of Virology</i> , <b>1998</b> , 72, 7387-96	6.6	63
101	Nonstructural proteins involved in genome packaging and replication of rotaviruses and other members of the Reoviridae. <i>Virus Research</i> , <b>2004</b> , 101, 57-66	6.4	61
100	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> , <b>1993</b> , 196, 372-8	3.6	60
99	Simian rotaviruses possess divergent gene constellations that originated from interspecies transmission and reassortment. <i>Journal of Virology</i> , <b>2010</b> , 84, 2013-26	6.6	54
98	The rotavirus nonstructural protein, NS35, possesses RNA-binding activity in vitro and in vivo. <i>Virology</i> , <b>1992</b> , 191, 698-708	3.6	53
97	Template recognition and formation of initiation complexes by the replicase of a segmented double-stranded RNA virus. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 32673-82	5.4	51

96	Effect of intragenic rearrangement and changes in the 3Tconsensus sequence on NSP1 expression and rotavirus replication. <i>Journal of Virology</i> , <b>2001</b> , 75, 2076-86	6.6	51
95	The carboxyl-half of the rotavirus nonstructural protein NS53 (NSP1) is not required for virus replication. <i>Virology</i> , <b>1994</b> , 198, 567-76	3.6	51
94	Rotavirus NSP1 mediates degradation of interferon regulatory factors through targeting of the dimerization domain. <i>Journal of Virology</i> , <b>2013</b> , 87, 9813-21	6.6	50
93	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> , <b>2000</b> , 6, 1455-67	5.8	50
92	Structure and protein composition of the rotavirus replicase particle. <i>Virology</i> , <b>1988</b> , 166, 358-65	3.6	50
91	Vaccine-derived NSP2 segment in rotaviruses from vaccinated children with gastroenteritis in Nicaragua. <i>Infection, Genetics and Evolution</i> , <b>2012</b> , 12, 1282-94	4.5	49
90	Rotavirus VP2 core shell regions critical for viral polymerase activation. <i>Journal of Virology</i> , <b>2011</b> , 85, 3095-105	6.6	49
89	Structure-function analysis of rotavirus NSP2 octamer by using a novel complementation system. <i>Journal of Virology</i> , <b>2006</b> , 80, 7984-94	6.6	48
88	RNA-binding and capping activities of proteins in rotavirus open cores. <i>Journal of Virology</i> , <b>1999</b> , 73, 1388-91	6.6	46
87	RNA-binding activity of the rotavirus phosphoprotein NSP5 includes affinity for double-stranded RNA. <i>Journal of Virology</i> , <b>2002</b> , 76, 5291-9	6.6	44
86	Reverse transcriptase adds nontemplated nucleotides to cDNAs during 5' RACE and primer extension. <i>BioTechniques</i> , <b>2001</b> , 30, 574-80, 582	2.5	44
85	Characterization of subviral particles in cells infected with simian rotavirus SA11. <i>Virology</i> , <b>1986</b> , 155, 655-65	3.6	44
84	Synthesis of simian rotavirus SA11 double-stranded RNA in a cell-free system. <i>Virus Research</i> , <b>1986</b> , 6, 217-33	6.4	44
83	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> , <b>2014</b> , 88, 3789-801	6.6	43
82	Nucleotide and amino acid sequence analysis of the rotavirus nonstructural RNA-binding protein NS35. <i>Virology</i> , <b>1993</b> , 192, 438-46	3.6	43
81	The ins and outs of four-tunneled Reoviridae RNA-dependent RNA polymerases. <i>Current Opinion in Structural Biology</i> , <b>2009</b> , 19, 775-82	8.1	42
80	Putative E3 ubiquitin ligase of human rotavirus inhibits NF- $\kappa$ B activation by using molecular mimicry to target I $\kappa$ B $\alpha$ . <i>MBio</i> , <b>2015</b> , 6,	7.8	40
79	Mechanism of intraparticle synthesis of the rotavirus double-stranded RNA genome. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 18123-8	5.4	40

78	Analysis of a temperature-sensitive mutant rotavirus indicates that NSP2 octamers are the functional form of the protein. <i>Journal of Virology</i> , <b>2002</b> , 76, 7082-93	6.6	39
77	Diversity and relationships of cocirculating modern human rotaviruses revealed using large-scale comparative genomics. <i>Journal of Virology</i> , <b>2012</b> , 86, 9148-62	6.6	38
76	Shared and group-specific features of the rotavirus RNA polymerase reveal potential determinants of gene reassortment restriction. <i>Journal of Virology</i> , <b>2009</b> , 83, 6135-48	6.6	38
75	A base-specific recognition signal in the 5'Tconsensus sequence of rotavirus plus-strand RNAs promotes replication of the double-stranded RNA genome segments. <i>Rna</i> , <b>2006</b> , 12, 133-46	5.8	38
74	Histidine triad-like motif of the rotavirus NSP2 octamer mediates both RTPase and NTPase activities. <i>Journal of Molecular Biology</i> , <b>2006</b> , 362, 539-54	6.5	38
73	Multimers of the bluetongue virus nonstructural protein, NS2, possess nucleotidyl phosphatase activity: similarities between NS2 and rotavirus NSP2. <i>Virology</i> , <b>2001</b> , 280, 221-31	3.6	38
72	Comparative Proteomics Reveals Strain-Specific ETrCP Degradation via Rotavirus NSP1 Hijacking a Host Cullin-3-Rbx1 Complex. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005929	7.6	38
71	Genome packaging in multi-segmented dsRNA viruses: distinct mechanisms with similar outcomes. <i>Current Opinion in Virology</i> , <b>2018</b> , 33, 106-112	7.5	37
70	Coupling of rotavirus genome replication and capsid assembly. <i>Advances in Virus Research</i> , <b>2007</b> , 69, 167-201	7.0	37
69	Rotavirus glycoprotein NSP4 is a modulator of viral transcription in the infected cell. <i>Journal of Virology</i> , <b>2005</b> , 79, 15165-74	6.6	37
68	Crystallographic and biochemical analysis of rotavirus NSP2 with nucleotides reveals a nucleoside diphosphate kinase-like activity. <i>Journal of Virology</i> , <b>2007</b> , 81, 12272-84	6.6	36
67	A four-nucleotide translation enhancer in the 3'Tterminal consensus sequence of the nonpolyadenylated mRNAs of rotavirus. <i>Rna</i> , <b>2000</b> , 6, 814-25	5.8	36
66	Drebrin restricts rotavirus entry by inhibiting dynamin-mediated endocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E3642-E3651	11.5	35
65	Features of the 3'Tconsensus sequence of rotavirus mRNAs critical to minus strand synthesis. <i>Virology</i> , <b>2001</b> , 282, 221-9	3.6	35
64	Silencing the alarms: Innate immune antagonism by rotavirus NSP1 and VP3. <i>Virology</i> , <b>2015</b> , 479-480, 75-84	3.6	34
63	Role of the histidine triad-like motif in nucleotide hydrolysis by the rotavirus RNA-packaging protein NSP2. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 10624-33	5.4	33
62	Complete genome sequence analysis of candidate human rotavirus vaccine strains RV3 and 116E. <i>Virology</i> , <b>2010</b> , 405, 201-13	3.6	32
61	Rotavirus morphogenesis: domains in the major inner capsid protein essential for binding to single-shelled particles and for trimerization. <i>Virology</i> , <b>1991</b> , 180, 697-708	3.6	32

60	Generation of genetically stable recombinant rotaviruses containing novel genome rearrangements and heterologous sequences by reverse genetics. <i>Journal of Virology</i> , <b>2013</b> , 87, 6211-20 <sup>6.6</sup>	31
59	Ulnar collateral ligament reconstruction using bisuspensory fixation: a biomechanical comparison with the docking technique. <i>American Journal of Sports Medicine</i> , <b>2013</b> , 41, 1158-64	6.8 30
58	Interactions among capsid proteins orchestrate rotavirus particle functions. <i>Current Opinion in Virology</i> , <b>2012</b> , 2, 373-9	7.5 28
57	Genome heterogeneity of SA11 rotavirus due to reassortment with "O" agent. <i>Virology</i> , <b>2007</b> , 359, 415-24 <sup>6</sup>	28
56	Rotavirus RNA replication and gene expression. <i>Novartis Foundation Symposium</i> , <b>2001</b> , 238, 64-77; discussion 77-81	27
55	Synthesis and biological evaluation of a potent E-selectin antagonist. <i>Journal of Medicinal Chemistry</i> , <b>1999</b> , 42, 4909-13	8.3 27
54	Intra-genotypic diversity of archival G4P[8] human rotaviruses from Washington, DC. <i>Infection, Genetics and Evolution</i> , <b>2011</b> , 11, 1586-94	4.5 26
53	Predicted structure and domain organization of rotavirus capping enzyme and innate immune antagonist VP3. <i>Journal of Virology</i> , <b>2014</b> , 88, 9072-85	6.6 25
52	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> , <b>2004</b> , 189, 1833-45	7 25
51	Rotavirus Calcium Dysregulation Manifests as Dynamic Calcium Signaling in the Cytoplasm and Endoplasmic Reticulum. <i>Scientific Reports</i> , <b>2019</b> , 9, 10822	4.9 23
50	Crystallographic Analysis of Rotavirus NSP2-RNA Complex Reveals Specific Recognition of 5TGG Sequence for RTPase Activity. <i>Journal of Virology</i> , <b>2012</b> , 86, 10547-57	6.6 22
49	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> , <b>2012</b> , 93, 1483-1494	4.9 22
48	Evidence for equimolar synthesis of double-strand RNA and minus-strand RNA in rotavirus-infected cells. <i>Virus Research</i> , <b>1990</b> , 17, 199-208	6.4 22
47	Generation of Recombinant Rotavirus Expressing NSP3-UnaG Fusion Protein by a Simplified Reverse Genetics System. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6 22
46	Replication and transcription of the rotavirus genome. <i>Current Pharmaceutical Design</i> , <b>2004</b> , 10, 3769-77 <sup>3.3</sup>	21
45	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> , <b>2014</b> , 88, 9842-63	6.6 20
44	Structural basis for 2F5Foligoadenylate binding and enzyme activity of a viral RNase L antagonist. <i>Journal of Virology</i> , <b>2015</b> , 89, 6633-45	6.6 20
43	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> , <b>2019</b> , 93,	6.6 20

42	Rotavirus antagonism of the innate immune response. <i>Viruses</i> , <b>2009</b> , 1, 1035-56	6.2	18
41	Molecular characterization of a subgroup specificity associated with the rotavirus inner capsid protein VP2. <i>Journal of Virology</i> , <b>2008</b> , 82, 2752-64	6.6	18
40	Rotavirus NSP1 Requires Casein Kinase II-Mediated Phosphorylation for Hijacking of Cullin-RING Ligases. <i>MBio</i> , <b>2017</b> , 8,	7.8	17
39	Virus replication. <i>Methods in Molecular Medicine</i> , <b>2000</b> , 34, 33-66		17
38	Open reading frame in rotavirus mRNA specifically promotes synthesis of double-stranded RNA: template size also affects replication efficiency. <i>Virology</i> , <b>1999</b> , 264, 167-80	3.6	17
37	Electrophoretic separation of the plus and minus strands of rotavirus SA11 double-stranded RNAs. <i>Journal of Virological Methods</i> , <b>1986</b> , 13, 185-90	2.6	17
36	Mutational analysis of residues involved in nucleotide and divalent cation stabilization in the rotavirus RNA-dependent RNA polymerase catalytic pocket. <i>Virology</i> , <b>2012</b> , 431, 12-20	3.6	16
35	Prevalence of groups A and C rotavirus antibodies in infants with biliary atresia and cholestatic controls. <i>Journal of Pediatrics</i> , <b>2015</b> , 166, 79-84	3.6	15
34	Residues of the rotavirus RNA-dependent RNA polymerase template entry tunnel that mediate RNA recognition and genome replication. <i>Journal of Virology</i> , <b>2011</b> , 85, 1958-69	6.6	15
33	Cell-line-induced mutation of the rotavirus genome alters expression of an IRF3-interacting protein. <i>EMBO Journal</i> , <b>2004</b> , 23, 4072-81	13	15
32	Rotavirus RNA polymerases resolve into two phylogenetically distinct classes that differ in their mechanism of template recognition. <i>Virology</i> , <b>2012</b> , 431, 50-7	3.6	14
31	Non-structural protein NSP2 induces heterotypic antibody responses during primary rotavirus infection and reinfection in children. <i>Journal of Medical Virology</i> , <b>2008</b> , 80, 1090-8	19.7	14
30	Identification of sequences in rotavirus mRNAs important for minus strand synthesis using antisense oligonucleotides. <i>Virology</i> , <b>2001</b> , 288, 71-80	3.6	14
29	Rotavirus Infects Human Biliary Epithelial Cells and Stimulates Secretion of Cytokines IL-6 and IL-8 via MAPK Pathway. <i>BioMed Research International</i> , <b>2015</b> , 2015, 697238	3	13
28	The switch from transcription to replication of a negative-strand RNA virus. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>1987</b> , 52, 367-71	3.9	12
27	Rotavirus Species B Encodes a Functional Fusion-Associated Small Transmembrane Protein. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	11
26	Collection of Recombinant Rotaviruses Expressing Fluorescent Reporter Proteins. <i>Microbiology Resource Announcements</i> , <b>2019</b> , 8,	1.3	11
25	Regulation of rotavirus polymerase activity by inner capsid proteins. <i>Current Opinion in Virology</i> , <b>2014</b> , 9, 31-8	7.5	11



24	An ATPase activity associated with the rotavirus phosphoprotein NSP5. <i>Virology</i> , <b>2007</b> , 369, 389-99	3.6	11
23	Absence of genetic differences among G10P[11] rotaviruses associated with asymptomatic and symptomatic neonatal infections in Vellore, India. <i>Journal of Virology</i> , <b>2014</b> , 88, 9060-71	6.6	10
22	Rotavirus NSP2 interferes with the core lattice protein VP2 in initiation of minus-strand synthesis. <i>Virology</i> , <b>2003</b> , 313, 261-73	3.6	10
21	Shutdown of interferon signaling by a viral-hijacked E3 ubiquitin ligase. <i>Microbial Cell</i> , <b>2017</b> , 4, 387-389	3.9	10
20	Expression of Separate Heterologous Proteins from the Rotavirus NSP3 Genome Segment Using a Translational 2A Stop-Restart Element. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	9
19	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> , <b>2004</b> , 149, 303-21	2.6	9
18	Comparative analysis of Reoviridae reverse genetics methods. <i>Methods</i> , <b>2013</b> , 59, 199-206	4.6	7
17	Replication of nondefective parvoviruses: lack of a virion-associated DNA polymerase. <i>Journal of Virology</i> , <b>1978</b> , 28, 20-7	6.6	7
16	Modeling of the rotavirus group C capsid predicts a surface topology distinct from other rotavirus species. <i>Virology</i> , <b>2016</b> , 487, 150-62	3.6	6
15	Mutations in the rotavirus spike protein VP4 reduce trypsin sensitivity but not viral spread. <i>Journal of General Virology</i> , <b>2013</b> , 94, 1296-1300	4.9	6
14	II, 4. Rotavirus genome replication: role of the RNA-binding proteins. <i>Perspectives in Medical Virology</i> , <b>2003</b> , 9, 165-183		6
13	Rotavirus assembly - interaction of surface protein VP7 with middle layer protein VP6. <i>Archives of Virology</i> , <b>2001</b> , 146, 1155-71	2.6	6
12	Rotavirus as an Expression Platform of Domains of the SARS-CoV-2 Spike Protein. <i>Vaccines</i> , <b>2021</b> , 9,	5.3	6
11	Simplified Reverse Genetics Method to Recover Recombinant Rotaviruses Expressing Reporter Proteins. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	4
10	Rotaviruses as Neonatal Vaccine Expression Vectors against Other Enteric Pathogens. <i>Proceedings (mdpi)</i> , <b>2020</b> , 50, 53	0.3	3
9	Rotavirus Replication and Reverse Genetics <b>2016</b> , 121-143		3
8	Primed for Discovery: Atomic-Resolution Cryo-EM Structure of a Reovirus Entry Intermediate. <i>Viruses</i> , <b>2010</b> , 2, 1340-6	6.2	2
7	[24] Using the RNA-capture assay to assess the RNA-binding activity of viral proteins. <i>Methods in Molecular Genetics</i> , <b>1995</b> , 7, 373-387		1



- 6 Group B rotavirus encodes a functional fusion-associated small transmembrane (FAST) protein 1
- 5 Functions of the Rotavirus RNA Polymerase in Virus Replication **2010**, 31-40
- 4 Core-Associated Genome Replication Mechanisms of dsRNA Viruses **2009**, 201-224
- 3 Viral factories in rotavirus-infected cells: interactions between protein and RNA components.  
*Future Virology*, **2007**, 2, 157-161 2.4
- 2 Rotavirus Antagonism of the Host Innate Immune Response **2009**, 655-677
- 1 Innate Immune Responses Elicited by Reovirus and Rotavirus 403-422