

Carlos F Arias

List of Publications by Year in descending order

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139
papers

6,231
citations

47006

47
h-index

88630

70
g-index

154
all docs

154
docs citations

154
times ranked

6157
citing authors

#	ARTICLE	IF	CITATIONS
1	Multistep entry of rotavirus into cells: a Versaillesque dance. <i>Trends in Microbiology</i> , 2004, 12, 271-278.	7.7	183
2	Dengue 2 Virus NS2B and NS3 Form a Stable Complex That Can Cleave NS3 within the Helicase Domain. <i>Virology</i> , 1993, 193, 888-899.	2.4	173
3	A Metagenomic Analysis of Pandemic Influenza A (2009 H1N1) Infection in Patients from North America. <i>PLoS ONE</i> , 2010, 5, e13381.	2.5	169
4	Heat Shock Cognate Protein 70 Is Involved in Rotavirus Cell Entry. <i>Journal of Virology</i> , 2002, 76, 4096-4102.	3.4	152
5	Primary structure of the cleavage site associated with trypsin enhancement of rotavirus SA11 infectivity. <i>Virology</i> , 1985, 144, 11-19.	2.4	130
6	The rotavirus surface protein VP8 modulates the gate and fence function of tight junctions in epithelial cells. <i>Journal of Cell Science</i> , 2004, 117, 5509-5519.	2.0	130
7	Infectivity and genome persistence of rotavirus and astrovirus in groundwater and surface water. <i>Water Research</i> , 2008, 42, 2618-2628.	11.3	128
8	Rotavirus Infection Induces the Phosphorylation of eIF2 β but Prevents the Formation of Stress Granules. <i>Journal of Virology</i> , 2008, 82, 1496-1504.	3.4	125
9	Hologenomic adaptations underlying the evolution of sanguivory in the common vampire bat. <i>Nature Ecology and Evolution</i> , 2018, 2, 659-668.	7.8	124
10	Metagenomic sequencing with spiked primer enrichment for viral diagnostics and genomic surveillance. <i>Nature Microbiology</i> , 2020, 5, 443-454.	13.3	114
11	Characterization of Rotavirus Cell Entry. <i>Journal of Virology</i> , 2004, 78, 2310-2318.	3.4	112
12	Silencing the Morphogenesis of Rotavirus. <i>Journal of Virology</i> , 2005, 79, 184-192.	3.4	112
13	Role of sialic acids in rotavirus infection. <i>Glycoconjugate Journal</i> , 2006, 23, 27-37.	2.7	112
14	Discovery of a Novel Polyomavirus in Acute Diarrheal Samples from Children. <i>PLoS ONE</i> , 2012, 7, e49449.	2.5	110
15	Biochemical Characterization of Rotavirus Receptors in MA104 Cells. <i>Journal of Virology</i> , 2000, 74, 9362-9371.	3.4	101
16	Rotavirus gene silencing by small interfering RNAs. <i>EMBO Reports</i> , 2002, 3, 1175-1180.	4.5	101
17	Interaction of Rotaviruses with Hsc70 during Cell Entry Is Mediated by VP5. <i>Journal of Virology</i> , 2003, 77, 7254-7260.	3.4	92
18	Different Rotavirus Strains Enter MA104 Cells through Different Endocytic Pathways: the Role of Clathrin-Mediated Endocytosis. <i>Journal of Virology</i> , 2010, 84, 9161-9169.	3.4	92

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19	The VP5 Domain of VP4 Can Mediate Attachment of Rotaviruses to Cells. <i>Journal of Virology</i> , 2000, 74, 593-599.	3.4	87
20	Caspases Mediate Processing of the Capsid Precursor and Cell Release of Human Astroviruses. <i>Journal of Virology</i> , 2004, 78, 8601-8608.	3.4	85
21	Molecular analysis of a serotype 8 human astrovirus genome. <i>Journal of General Virology</i> , 2000, 81, 2891-2897.	2.9	85
22	Rotavirus Entry: a Deep Journey into the Cell with Several Exits. <i>Journal of Virology</i> , 2015, 89, 890-893.	3.4	82
23	Genomic Epidemiology Reconstructs the Introduction and Spread of Zika Virus in Central America and Mexico. <i>Cell Host and Microbe</i> , 2018, 23, 855-864.e7.	11.0	82
24	Prevalence and Genetic Diversity of Human Astroviruses in Mexican Children with Symptomatic and Asymptomatic Infections. <i>Journal of Clinical Microbiology</i> , 2004, 42, 151-157.	3.9	81
25	The Astrovirus Capsid: A Review. <i>Viruses</i> , 2017, 9, 15.	3.3	81
26	Integrin $\alpha 2 \beta 1$ Mediates the Cell Attachment of the Rotavirus Neuraminidase-Resistant Variant nar3. <i>Virology</i> , 2000, 278, 50-54.	2.4	80
27	Rotavirus Nonstructural Protein NSP3 Is Not Required for Viral Protein Synthesis. <i>Journal of Virology</i> , 2006, 80, 9031-9038.	3.4	80
28	Proteolytic Processing of a Serotype 8 Human Astrovirus ORF2 Polyprotein. <i>Journal of Virology</i> , 2002, 76, 7996-8002.	3.4	79
29	Protein Kinase R Is Responsible for the Phosphorylation of eIF2 β in Rotavirus Infection. <i>Journal of Virology</i> , 2010, 84, 10457-10466.	3.4	76
30	Reduced expression of the rotavirus NSP5 gene has a pleiotropic effect on virus replication. <i>Journal of General Virology</i> , 2005, 86, 1609-1617.	2.9	75
31	Tight Junctions Go Viral!. <i>Viruses</i> , 2015, 7, 5145-5154.	3.3	73
32	Genome-wide RNAi screen reveals a role for the ESCRT complex in rotavirus cell entry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10270-10275.	7.1	71
33	Entry of Rotaviruses Is a Multistep Process. <i>Virology</i> , 1999, 263, 450-459.	2.4	67
34	Molecular Biology of Rotavirus Cell Entry. <i>Archives of Medical Research</i> , 2002, 33, 356-361.	3.3	65
35	The C-terminal domain of rotavirus NSP5 is essential for its multimerization, hyperphosphorylation and interaction with NSP6. <i>Journal of General Virology</i> , 2000, 81, 821-830.	2.9	64
36	Replication of the Rotavirus Genome Requires an Active Ubiquitin-Proteasome System. <i>Journal of Virology</i> , 2011, 85, 11964-11971.	3.4	62

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37	Gangliosides Have a Functional Role during Rotavirus Cell Entry. <i>Journal of Virology</i> , 2013, 87, 1115-1122.	3.4	61
38	Molecular Anatomy of 2009 Influenza Virus A (H1N1). <i>Archives of Medical Research</i> , 2009, 40, 643-654.	3.3	60
39	Endoplasmic Reticulum Chaperones Are Involved in the Morphogenesis of Rotavirus Infectious Particles. <i>Journal of Virology</i> , 2008, 82, 5368-5380.	3.4	59
40	Human Virome. <i>Archives of Medical Research</i> , 2017, 48, 701-716.	3.3	58
41	Saliva Sampling and Its Direct Lysis, an Excellent Option To Increase the Number of SARS-CoV-2 Diagnostic Tests in Settings with Supply Shortages. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	3.9	58
42	Rotavirus Infection Induces the Unfolded Protein Response of the Cell and Controls It through the Nonstructural Protein NSP3. <i>Journal of Virology</i> , 2011, 85, 12594-12604.	3.4	55
43	Conservation in rotaviruses of the protein region containing the two sites associated with trypsin enhancement of infectivity. <i>Virology</i> , 1986, 154, 224-227.	2.4	53
44	The Salmonella ompC gene: Structure and use as a carrier for heterologous sequences. <i>Gene</i> , 1995, 156, 1-9.	2.2	53
45	VP7 Mediates the Interaction of Rotaviruses with Integrin $\alpha 5 \beta 1$ through a Novel Integrin-Binding Site. <i>Journal of Virology</i> , 2004, 78, 10839-10847.	3.4	53
46	Rotavirus RRV associates with lipid membrane microdomains during cell entry. <i>Virology</i> , 2004, 322, 370-381.	2.4	53
47	Identification of two independent neutralization domains on the VP4 trypsin cleavage products VP5* and VP8* of human rotavirus ST3. <i>Virology</i> , 1995, 206, 148-154.	2.4	51
48	Influence of Calcium on the Early Steps of Rotavirus Infection. <i>Virology</i> , 2002, 295, 190-200.	2.4	51
49	The Peptide-Binding and ATPase Domains of Recombinant hsc70 Are Required To Interact with Rotavirus and Reduce Its Infectivity. <i>Journal of Virology</i> , 2006, 80, 3322-3331.	3.4	51
50	Association of the Astrovirus Structural Protein VP90 with Membranes Plays a Role in Virus Morphogenesis. <i>Journal of Virology</i> , 2007, 81, 10649-10658.	3.4	48
51	Zika Virus in Salivary Glands of Five Different Species of Wild-Caught Mosquitoes from Mexico. <i>Scientific Reports</i> , 2018, 8, 809.	3.3	48
52	Rotaviruses Reach Late Endosomes and Require the Cation-Dependent Mannose-6-Phosphate Receptor and the Activity of Cathepsin Proteases To Enter the Cell. <i>Journal of Virology</i> , 2014, 88, 4389-4402.	3.4	46
53	Characterization of Human Astrovirus Cell Entry. <i>Journal of Virology</i> , 2014, 88, 2452-2460.	3.4	46
54	The tight junction protein JAM-A functions as coreceptor for rotavirus entry into MA104 cells. <i>Virology</i> , 2015, 475, 172-178.	2.4	46

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55	Mapping the Subgroup Epitopes of Rotavirus Protein VP6. <i>Virology</i> , 1994, 204, 153-162.	2.4	45
56	Production of Rotavirus-Like Particles in Tomato (<i>Lycopersicon esculentum</i> L.) Fruit by Expression of Capsid Proteins VP2 and VP6 and Immunological Studies. <i>Viral Immunology</i> , 2006, 19, 42-53.	1.3	45
57	The evolution of bat nucleic acid-sensing Toll-like receptors. <i>Molecular Ecology</i> , 2015, 24, 5899-5909.	3.9	43
58	The Geographic Structure of Viruses in the Cuatro Ciñegas Basin, a Unique Oasis in Northern Mexico, Reveals a Highly Diverse Population on a Small Geographic Scale. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	43
59	Protein Products of the Open Reading Frames Encoding Nonstructural Proteins of Human Astrovirus Serotype 8. <i>Journal of Virology</i> , 2003, 77, 11378-11384.	3.4	42
60	Comparative study of enteric viruses, coliphages and indicator bacteria for evaluating water quality in a tropical high-altitude system. <i>Environmental Health</i> , 2009, 8, 49.	4.0	41
61	Inhibiting Rotavirus Infection by Membrane-Impermeant Thiol/Disulfide Exchange Blockers and Antibodies against Protein Disulfide Isomerase. <i>Intervirology</i> , 2012, 55, 451-464.	2.8	41
62	The Spike Protein VP4 Defines the Endocytic Pathway Used by Rotavirus To Enter MA104 Cells. <i>Journal of Virology</i> , 2013, 87, 1658-1663.	3.4	41
63	DNA Microarray for Detection of Gastrointestinal Viruses. <i>Journal of Clinical Microbiology</i> , 2015, 53, 136-145.	3.9	41
64	Analysis of the Kinetics of Transcription and Replication of the Rotavirus Genome by RNA Interference. <i>Journal of Virology</i> , 2009, 83, 8819-8831.	3.4	39
65	RNA silencing of rotavirus gene expression. <i>Virus Research</i> , 2004, 102, 43-51.	2.2	38
66	Rotavirus Prevents the Expression of Host Responses by Blocking the Nucleocytoplasmic Transport of Polyadenylated mRNAs. <i>Journal of Virology</i> , 2013, 87, 6336-6345.	3.4	37
67	A simplified workflow for monoclonal antibody sequencing. <i>PLoS ONE</i> , 2019, 14, e0218717.	2.5	37
68	Rotavirus Controls Activation of the 2'5'-Oligoadenylate Synthetase/RNase L Pathway Using at Least Two Distinct Mechanisms. <i>Journal of Virology</i> , 2015, 89, 12145-12153.	3.4	36
69	Crystal Structure of the Human Astrovirus Capsid Protein. <i>Journal of Virology</i> , 2016, 90, 9008-9017.	3.4	33
70	Antigenic and Genomic Diversity of Human Rotavirus VP4 in Two Consecutive Epidemic Seasons in Mexico. <i>Journal of Clinical Microbiology</i> , 1998, 36, 1688-1692.	3.9	33
71	Synthesis of the outer-capsid glycoprotein of the simian rotavirus SA11 in <i>Escherichia coli</i> . <i>Gene</i> , 1986, 47, 211-219.	2.2	32
72	Is There Still Room for Novel Viral Pathogens in Pediatric Respiratory Tract Infections?. <i>PLoS ONE</i> , 2014, 9, e113570.	2.5	32

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73	A Novel Endogenous Betaretrovirus in the Common Vampire Bat (<i>Desmodus rotundus</i>) Suggests Multiple Independent Infection and Cross-Species Transmission Events. <i>Journal of Virology</i> , 2015, 89, 5180-5184.	3.4	32
74	Identification of Host Cell Factors Associated with Astrovirus Replication in Caco-2 Cells. <i>Journal of Virology</i> , 2015, 89, 10359-10370.	3.4	32
75	Genomic Analysis of Early SARS-CoV-2 Variants Introduced in Mexico. <i>Journal of Virology</i> , 2020, 94, .	3.4	32
76	Genetic Analysis of SARS-CoV-2 Variants in Mexico during the First Year of the COVID-19 Pandemic. <i>Viruses</i> , 2021, 13, 2161.	3.3	32
77	Bats, Primates, and the Evolutionary Origins and Diversification of Mammalian Gammaherpesviruses. <i>MBio</i> , 2016, 7, .	4.1	31
78	Emergence and spread of the potential variant of interest (VOI) B.1.1.519 of SARS-CoV-2 predominantly present in Mexico. <i>Archives of Virology</i> , 2021, 166, 3173-3177.	2.1	31
79	Characterization of viroplasm formation during the early stages of rotavirus infection. <i>Virology Journal</i> , 2010, 7, 350.	3.4	29
80	Rotavirus Strategies Against the Innate Antiviral System. <i>Annual Review of Virology</i> , 2016, 3, 591-609.	6.7	29
81	Isolation of Neutralizing Monoclonal Antibodies to Human Astrovirus and Characterization of Virus Variants That Escape Neutralization. <i>Journal of Virology</i> , 2019, 93, .	3.4	26
82	The gut virome of healthy children during the first year of life is diverse and dynamic. <i>PLoS ONE</i> , 2021, 16, e0240958.	2.5	26
83	Rotavirus cell entry: not so simple after all. <i>Current Opinion in Virology</i> , 2021, 48, 42-48.	5.4	25
84	Nanoscale organization of rotavirus replication machineries. <i>ELife</i> , 2019, 8, .	6.0	24
85	Rotavirusâ€œhost cell interactions: an arms race. <i>Current Opinion in Virology</i> , 2012, 2, 389-398.	5.4	23
86	Immunological characterization of a rotavirus-neutralizing epitope fused to the cholera toxin B subunit. <i>Gene</i> , 1993, 133, 227-232.	2.2	21
87	Rotavirus Diarrhea Severity Is Related to the VP4 Type in Mexican Children. <i>Journal of Clinical Microbiology</i> , 2003, 41, 3158-3162.	3.9	21
88	The Alpha Variant (B.1.1.7) of SARS-CoV-2 Failed to Become Dominant in Mexico. <i>Microbiology Spectrum</i> , 2022, 10, e0224021.	3.0	21
89	The nucleotide sequence of the 5â€™ and 3â€™ ends of rota virus SA11 gene 4. <i>Nucleic Acids Research</i> , 1987, 15, 4691-4691.	14.5	20
90	Rhinovirus is an important pathogen in upper and lower respiratory tract infections in Mexican children. <i>Virology Journal</i> , 2015, 12, 31.	3.4	20

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91	Actin-Dependent Nonlytic Rotavirus Exit and Infectious Virus Morphogenetic Pathway in Nonpolarized Cells. <i>Journal of Virology</i> , 2018, 92, .	3.4	19
92	Polarized rotavirus entry and release from differentiated small intestinal cells. <i>Virology</i> , 2016, 499, 65-71.	2.4	18
93	Structural Basis for Escape of Human Astrovirus from Antibody Neutralization: Broad Implications for Rational Vaccine Design. <i>Journal of Virology</i> , 2018, 92, .	3.4	18
94	Tobamoviruses can be frequently present in the oropharynx and gut of infants during their first year of life. <i>Scientific Reports</i> , 2020, 10, 13595.	3.3	18
95	Protein Disulfide Isomerase A4 Is Involved in Genome Uncoating during Human Astrovirus Cell Entry. <i>Viruses</i> , 2021, 13, 53.	3.3	18
96	Early Events of Rotavirus Infection: The Search for the Receptor(s). <i>Novartis Foundation Symposium</i> , 2008, 238, 47-63.	1.1	17
97	Characterization of an influenza A virus in Mexican swine that is related to the A/H1N1/2009 pandemic clade. <i>Virology</i> , 2012, 433, 176-182.	2.4	17
98	Replication Cycle of Astroviruses. , 2012, , 19-45.		16
99	The Guanine Nucleotide Exchange Factor GBF1 Participates in Rotavirus Replication. <i>Journal of Virology</i> , 2019, 93, .	3.4	15
100	Rotavirus Vaccine: Early Introduction in Latin Americaâ€”Risks and Benefits. <i>Archives of Medical Research</i> , 2006, 37, 1-10.	3.3	14
101	The Ubiquitin-Proteasome System Is Necessary for Efficient Replication of Human Astrovirus. <i>Journal of Virology</i> , 2018, 92, .	3.4	14
102	The actin cytoskeleton is important for rotavirus internalization and RNA genome replication. <i>Virus Research</i> , 2019, 263, 27-33.	2.2	14
103	Rotaviruses Associate with Distinct Types of Extracellular Vesicles. <i>Viruses</i> , 2020, 12, 763.	3.3	14
104	Minimal capsid composition of infectious human astrovirus. <i>Virology</i> , 2018, 521, 58-61.	2.4	13
105	Dominance of Three Sublineages of the SARS-CoV-2 Delta Variant in Mexico. <i>Viruses</i> , 2022, 14, 1165.	3.3	12
106	Protein NS26 is highly conserved among porcine rotavirus strains. <i>Nucleic Acids Research</i> , 1993, 21, 1042-1042.	14.5	11
107	Characterization of a Monoclonal Antibody Directed to the Surface of MA104 Cells That Blocks the Infectivity of Rotaviruses. <i>Virology</i> , 2000, 273, 160-168.	2.4	11
108	The tyrosine kinase inhibitor genistein induces the detachment of rotavirus particles from the cell surface. <i>Virus Research</i> , 2015, 210, 141-148.	2.2	11

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109	Most rotavirus strains require the cation-independent mannose-6-phosphate receptor, sortilin-1, and cathepsins to enter cells. <i>Virus Research</i> , 2018, 245, 44-51.	2.2	11
110	Rotavirus RNAs sponge host cell RNA binding proteins and interfere with their subcellular localization. <i>Virology</i> , 2018, 525, 96-105.	2.4	11
111	Serotype Specificity of the Neutralizing-Antibody Response Induced by the Individual Surface Proteins of Rotavirus in Natural Infections of Young Children. <i>Vaccine Journal</i> , 1998, 5, 328-334.	2.6	11
112	Pooling saliva samples as an excellent option to increase the surveillance for SARS-CoV-2 when re-opening community settings. <i>PLoS ONE</i> , 2022, 17, e0263114.	2.5	11
113	Rotaviruses require basolateral molecules for efficient infection of polarized MDCKII cells. <i>Virus Research</i> , 2010, 147, 231-241.	2.2	10
114	High Seropositivity Rate of Neutralizing Antibodies to Astrovirus VA1 in Human Populations. <i>MSphere</i> , 2021, 6, e0048421.	2.9	10
115	Heat shock enhances the susceptibility of BHK cells to rotavirus infection through the facilitation of entry and post-entry virus replication steps. <i>Virus Research</i> , 2006, 121, 74-83.	2.2	9
116	Rotavirus cell entry. <i>Future Virology</i> , 2008, 3, 135-146.	1.8	9
117	Methods suitable for high-throughput screening of siRNAs and other chemical compounds with the potential to inhibit rotavirus replication. <i>Journal of Virological Methods</i> , 2012, 179, 242-249.	2.1	8
118	Role of the Guanine Nucleotide Exchange Factor GBF1 in the Replication of RNA Viruses. <i>Viruses</i> , 2020, 12, 682.	3.3	8
119	PhyloFlu, a DNA Microarray for Determining the Phylogenetic Origin of Influenza A Virus Gene Segments and the Genomic Fingerprint of Viral Strains. <i>Journal of Clinical Microbiology</i> , 2014, 52, 803-813.	3.9	7
120	Lipid metabolism is involved in the association of rotavirus viroplasm with endoplasmic reticulum membranes. <i>Virology</i> , 2022, 569, 29-36.	2.4	7
121	II, 3. Attachment and post-attachment receptors for rotavirus. <i>Perspectives in Medical Virology</i> , 2003, 9, 143-163.	0.1	6
122	Structures of Two Human Astrovirus Capsid/Neutralizing Antibody Complexes Reveal Distinct Epitopes and Inhibition of Virus Attachment to Cells. <i>Journal of Virology</i> , 2022, 96, JVI0141521.	3.4	6
123	The Capsid Precursor Protein of Astrovirus VA1 Is Proteolytically Processed Intracellularly. <i>Journal of Virology</i> , 2022, 96, .	3.4	6
124	Dissecting the role of integrin subunits $\alpha 2$ and $\beta 3$ in rotavirus cell entry by RNA silencing. <i>Virus Research</i> , 2009, 145, 251-259.	2.2	5
125	Molecular Epidemiology of Influenza A/H3N2 Viruses Circulating in Mexico from 2003 to 2012. <i>PLoS ONE</i> , 2014, 9, e102453.	2.5	5
126	Viral Communities Among Sympatric Vampire Bats and Cattle. <i>EcoHealth</i> , 2018, 15, 132-142.	2.0	5

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127	Genomic Characterization of SARS-CoV-2 Isolated from Patients with Distinct Disease Outcomes in Mexico. <i>Microbiology Spectrum</i> , 2022, , e0124921.	3.0	5
128	Development of a novel DNA based reverse genetics system for classic human astroviruses. <i>Virology</i> , 2019, 535, 130-135.	2.4	4
129	Pronóstico de la diarrea por rotavirus. <i>Salud Publica De Mexico</i> , 2001, 43, 524-528.	0.4	4
130	The Association of Human Astrovirus with Extracellular Vesicles Facilitates Cell Infection and Protects the Virus from Neutralizing Antibodies. <i>Journal of Virology</i> , 2022, 96, .	3.4	4
131	Preface. <i>Virus Research</i> , 2004, 102, 1-2.	2.2	3
132	Characterization of Rotavirus Strains with Unusual Electrophoretic Profiles. <i>Memorias Do Instituto Oswaldo Cruz</i> , 1997, 92, 771-774.	1.6	3
133	High Prevalence and Diversity of Caliciviruses in a Community Setting Determined by a Metagenomic Approach. <i>Microbiology Spectrum</i> , 2022, 10, e0185321.	3.0	3
134	Assessment of Epstein-Barr virus nucleic acids in gastric but not in breast cancer by next-generation sequencing of pooled Mexican samples. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2016, 111, 200-208.	1.6	2
135	Complete Genome Sequence of Human Coronavirus OC43 Isolated from Mexico. <i>Genome Announcements</i> , 2016, 4, .	0.8	2
136	Virus diversity and evolution. <i>Current Opinion in Microbiology</i> , 2013, 16, 465-467.	5.1	1
137	Rotavirus Biology. , 2017, , 19-42.		1
138	Reply to the Letter to the Editor entitled "Introduction of Human Rotavirus Vaccine in Latin America". <i>Archives of Medical Research</i> , 2006, 37, 570.	3.3	0
139	Astrovirus. , 2016, , 1231-1242.		0