Frank J M Van Kuppeveld

List of Publications by Citations

219 papers	10,211 citations	60 h-index	92 g-index
232 ext. papers	12,348 ext. citations	9.1 avg, IF	6.36 L-index

#	Paper	IF	Citations
219	A human monoclonal antibody blocking SARS-CoV-2 infection. *Nature Communications*, **2020**, 11, 2251	17.4	685
218	Viral reorganization of the secretory pathway generates distinct organelles for RNA replication. *Cell*, **2010**, 141, 799-811	56.2	481
217	Coronavirus cell entry occurs through the endo-/lysosomal pathway in a proteolysis-dependent manner. *PLoS Pathogens*, **2014**, 10, e1004502	7.6	261
216	Human coronaviruses OC43 and HKU1 bind to 9--acetylated sialic acids via a conserved receptor-binding site in spike protein domain A. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 2681-2690	11.5	242
215	Identification of sialic acid-binding function for the Middle East respiratory syndrome coronavirus spike glycoprotein. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E8508-E8517	11.5	216
214	The receptor binding domain of the new Middle East respiratory syndrome coronavirus maps to a 231-residue region in the spike protein that efficiently elicits neutralizing antibodies. *Journal of Virology*, **2013**, 87, 9379-83	6.6	171
213	The life cycle of non-polio enteroviruses and how to target it. *Nature Reviews Microbiology*, **2018**, 16, 368-381	22.2	163
212	Itraconazole inhibits enterovirus replication by targeting the oxysterol-binding protein. *Cell Reports* , **2015**, 10, 600-15	10.6	162
211	MDA5 detects the double-stranded RNA replicative form in picornavirus-infected cells. *Cell Reports*, **2012**, 2, 1187-96	10.6	160
210	Enterovirus 2Apro targets MDA5 and MAVS in infected cells. *Journal of Virology*, **2014**, 88, 3369-78	6.6	141
209	Rhinovirus uses a phosphatidylinositol 4-phosphate/cholesterol counter-current for the formation of replication compartments at the ER-Golgi interface. *Cell Host and Microbe*, **2014**, 16, 677-90	23.4	137
208	GBF1, a guanine nucleotide exchange factor for Arf, is crucial for coxsackievirus B3 RNA replication. *Journal of Virology*, **2009**, 83, 11940-9	6.6	133
207	Early endonuclease-mediated evasion of RNA sensing ensures efficient coronavirus replication. *PLoS Pathogens*, **2017**, 13, e1006195	7.6	131
206	Broad receptor engagement of an emerging global coronavirus may potentiate its diverse cross-species transmissibility. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E5135-E5143	11.5	129
205	Prevalence of xenotropic murine leukaemia virus-related virus in patients with chronic fatigue syndrome in the Netherlands: retrospective analysis of samples from an established cohort. *BMJ, The*, **2010**, 340, c1018	5.9	125
204	A viral protein that blocks Arf1-mediated COP-I assembly by inhibiting the guanine nucleotide exchange factor GBF1. *Developmental Cell*, **2006**, 11, 191-201	10.2	123
203	PLA2G16 represents a switch between entry and clearance of Picornaviridae. *Nature*, **2017**, 541, 412-416	50.4	117

202	Middle East Respiratory Coronavirus Accessory Protein 4a Inhibits PKR-Mediated Antiviral Stress Responses. *PLoS Pathogens*, **2016**, 12, e1005982	7.6	111
201	Mouse hepatitis coronavirus RNA replication depends on GBF1-mediated ARF1 activation. *PLoS Pathogens*, **2008**, 4, e1000088	7.6	104
200	Saffold virus, a human Theilers-like cardiovirus, is ubiquitous and causes infection early in life. *PLoS Pathogens*, **2009**, 5, e1000416	7.6	103
199	(+)RNA viruses rewire cellular pathways to build replication organelles. *Current Opinion in Virology*, **2012**, 2, 740-7	7.5	102
198	Sensing of latent EBV infection through exosomal transfer of 5pppRNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E587-96	11.5	99
197	Effects of picornavirus 3A Proteins on Protein Transport and GBF1-dependent COP-I recruitment. *Journal of Virology*, **2006**, 80, 11852-60	6.6	94
196	The coxsackievirus 2B protein suppresses apoptotic host cell responses by manipulating intracellular Ca2+ homeostasis. *Journal of Biological Chemistry*, **2004**, 279, 18440-50	5.4	94
195	Rhinovirus-induced calcium flux triggers NLRP3 and NLRC5 activation in bronchial cells. *American Journal of Respiratory Cell and Molecular Biology*, **2013**, 49, 923-34	5.7	93
194	Functional analysis of picornavirus 2B proteins: effects on calcium homeostasis and intracellular protein trafficking. *Journal of Virology*, **2008**, 82, 3782-90	6.6	92
193	Replication and Inhibitors of Enteroviruses and Parechoviruses. *Viruses*, **2015**, 7, 4529-62	6.2	91
192	Coxsackievirus mutants that can bypass host factor PI4KIII and the need for high levels of PI4P lipids for replication. *Cell Research*, **2012**, 22, 1576-92	24.7	90
191	Nucleocytoplasmic traffic disorder induced by cardioviruses. *Journal of Virology*, **2006**, 80, 2705-17	6.6	88
190	A proline-rich region in the coxsackievirus 3A protein is required for the protein to inhibit endoplasmic reticulum-to-golgi transport. *Journal of Virology*, **2005**, 79, 5163-73	6.6	88
189	Towards a solution to MERS: protective human monoclonal antibodies targeting different domains and functions of the MERS-coronavirus spike glycoprotein. *Emerging Microbes and Infections*, **2019**, 8, 516-530	18.9	86
188	A new inhibitor of apoptosis from vaccinia virus and eukaryotes. *PLoS Pathogens*, **2007**, 3, e17	7.6	86
187	The mengovirus leader protein blocks interferon-alpha/beta gene transcription and inhibits activation of interferon regulatory factor 3. *Cellular Microbiology*, **2007**, 9, 2921-30	3.9	85
186	Identification of an LGP2-associated MDA5 agonist in picornavirus-infected cells. *ELife*, **2014**, 3, e01535	8.9	85
185	ATP1A1-mediated Src signaling inhibits coronavirus entry into host cells. *Journal of Virology*, **2015**, 89, 4434-48	6.6	83

184	Stress granules regulate double-stranded RNA-dependent protein kinase activation through a complex containing G3BP1 and Caprin1. *MBio*, **2015**, 6, e02486	7.8	82
183	The coxsackievirus 2B protein increases efflux of ions from the endoplasmic reticulum and Golgi, thereby inhibiting protein trafficking through the Golgi. *Journal of Biological Chemistry*, **2006**, 281, 14144-50	5.4	80
182	Determinants for membrane association and permeabilization of the coxsackievirus 2B protein and the identification of the Golgi complex as the target organelle. *Journal of Biological Chemistry*, **2003**, 278, 1012-21	5.4	80
181	Small molecule ISRIB suppresses the integrated stress response within a defined window of activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 2097-2102	11.5	79
180	Proteolytic activation of the porcine epidemic diarrhea coronavirus spike fusion protein by trypsin in cell culture. *Journal of Virology*, **2014**, 88, 7952-61	6.6	79
179	A novel, broad-spectrum inhibitor of enterovirus replication that targets host cell factor phosphatidylinositol 4-kinase III *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 4971-81	5.9	78
178	Cellular entry of the porcine epidemic diarrhea virus. *Virus Research*, **2016**, 226, 117-127	6.4	77
177	Selective serotonin reuptake inhibitor fluoxetine inhibits replication of human enteroviruses B and D by targeting viral protein 2C. *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 1952-6	5.9	73
176	Building Viral Replication Organelles: Close Encounters of the Membrane Types. *PLoS Pathogens*, **2016**, 12, e1005912	7.6	71
175	Modulation of the Host Lipid Landscape to Promote RNA Virus Replication: The Picornavirus Encephalomyocarditis Virus Converges on the Pathway Used by Hepatitis C Virus. *PLoS Pathogens*, **2015**, 11, e1005185	7.6	70
174	Sialic acid-dependent cell entry of human enterovirus D68. *Nature Communications*, **2015**, 6, 8865	17.4	70
173	Viral rewiring of cellular lipid metabolism to create membranous replication compartments. *Current Opinion in Cell Biology*, **2017**, 47, 24-33	9	69
172	Structural and functional characterization of the coxsackievirus B3 CRE(2C): role of CRE(2C) in negative- and positive-strand RNA synthesis. *Journal of General Virology*, **2006**, 87, 103-113	4.9	69
171	Identification of a new dengue virus inhibitor that targets the viral NS4B protein and restricts genomic RNA replication. *Antiviral Research*, **2013**, 99, 165-71	10.8	68
170	MDA5 localizes to stress granules, but this localization is not required for the induction of type I interferon. *Journal of Virology*, **2013**, 87, 6314-25	6.6	68
169	Fat(al) attraction: Picornaviruses Usurp Lipid Transfer at Membrane Contact Sites to Create Replication Organelles. *Trends in Microbiology*, **2016**, 24, 535-546	12.4	64
168	Enterovirus D68 receptor requirements unveiled by haploid genetics. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 1399-404	11.5	63
167	The mengovirus leader protein suppresses alpha/beta interferon production by inhibition of the iron/ferritin-mediated activation of NF-kappa B. *Journal of Virology*, **2002**, 76, 9664-72	6.6	63

166	Kinetic analysis of the influenza A virus HA/NA balance reveals contribution of NA to virus-receptor binding and NA-dependent rolling on receptor-containing surfaces. *PLoS Pathogens*, **2018**, 14, e1007233	7.6	61
165	The thiazolobenzimidazole TBZE-029 inhibits enterovirus replication by targeting a short region immediately downstream from motif C in the nonstructural protein 2C. *Journal of Virology*, **2008**, 82, 4720-30	6.6	61
164	Protein synthesis persists during necrotic cell death. *Journal of Cell Biology*, **2005**, 168, 545-51	7.3	61
163	Rapid Emergence of Highly Pathogenic Avian Influenza Subtypes from a Subtype H5N1 Hemagglutinin Variant. *Emerging Infectious Diseases*, **2015**, 21, 842-6	10.2	60
162	Mutations in the nonstructural protein 3A confer resistance to the novel enterovirus replication inhibitor TTP-8307. *Antimicrobial Agents and Chemotherapy*, **2009**, 53, 1850-7	5.9	60
161	A conserved immunogenic and vulnerable site on the coronavirus spike protein delineated by cross-reactive monoclonal antibodies. *Nature Communications*, **2021**, 12, 1715	17.4	60
160	Detection of enterovirus RNA in peripheral blood mononuclear cells of type 1 diabetic patients beyond the stage of acute infection. *Viral Immunology*, **2010**, 23, 99-104	1.7	57
159	Betacoronavirus Adaptation to Humans Involved Progressive Loss of Hemagglutinin-Esterase Lectin Activity. *Cell Host and Microbe*, **2017**, 21, 356-366	23.4	56
158	Recruitment of PI4KIIIβ to coxsackievirus B3 replication organelles is independent of ACBD3, GBF1, and Arf1. *Journal of Virology*, **2014**, 88, 2725-36	6.6	55
157	Mengovirus-induced rearrangement of the nuclear pore complex: hijacking cellular phosphorylation machinery. *Journal of Virology*, **2009**, 83, 3150-61	6.6	55
156	Molecular determinants of the interaction between coxsackievirus protein 3A and guanine nucleotide exchange factor GBF1. *Journal of Virology*, **2007**, 81, 5238-45	6.6	55
155	Enterovirus protein 2B po(u)res out the calcium: a viral strategy to survive?. *Trends in Microbiology*, **2005**, 13, 41-4	12.4	55
154	A human monoclonal antibody blocking SARS-CoV-2 infection		53
153	Broad-range inhibition of enterovirus replication by OSW-1, a natural compound targeting OSBP. *Antiviral Research*, **2015**, 117, 110-4	10.8	52
152	Synergistic antiviral activity of gemcitabine and ribavirin against enteroviruses. *Antiviral Research*, **2015**, 124, 1-10	10.8	51
151	The structure-function relationship of the enterovirus 3SUTR. *Virus Research*, **2009**, 139, 209-16	6.4	50
150	Direct-acting antivirals and host-targeting strategies to combat enterovirus infections. *Current Opinion in Virology*, **2017**, 24, 1-8	7.5	49
149	Screening of a Library of FDA-Approved Drugs Identifies Several Enterovirus Replication Inhibitors That Target Viral Protein 2C. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 2627-38	5.9	49

148	Aminopeptidase N is not required for porcine epidemic diarrhea virus cell entry. *Virus Research*, **2017**, 235, 6-13	6.4	47
147	Complexity and Diversity of the Mammalian Sialome Revealed by Nidovirus Virolectins. *Cell Reports*, **2015**, 11, 1966-78	10.6	47
146	Manipulation of the porcine epidemic diarrhea virus genome using targeted RNA recombination. *PLoS ONE*, **2013**, 8, e69997	3.7	47
145	Homomultimerization of the coxsackievirus 2B protein in living cells visualized by fluorescence resonance energy transfer microscopy. *Journal of Virology*, **2002**, 76, 9446-56	6.6	46
144	Multimerization reactions of coxsackievirus proteins 2B, 2C and 2BC: a mammalian two-hybrid analysis. *Journal of General Virology*, **2002**, 83, 783-793	4.9	46
143	The RNA template channel of the RNA-dependent RNA polymerase as a target for development of antiviral therapy of multiple genera within a virus family. *PLoS Pathogens*, **2015**, 11, e1004733	7.6	44
142	Antiviral Activity of Broad-Spectrum and Enterovirus-Specific Inhibitors against Clinical Isolates of Enterovirus D68. *Antimicrobial Agents and Chemotherapy*, **2015**, 59, 7782-5	5.9	44
141	Cytokine and chemokine production by human pancreatic islets upon enterovirus infection. *Diabetes*, **2012**, 61, 2030-6	0.9	44
140	Infectious Bronchitis Coronavirus Limits Interferon Production by Inducing a Host Shutoff That Requires Accessory Protein 5b. *Journal of Virology*, **2016**, 90, 7519-7528	6.6	43
139	Induction and suppression of innate antiviral responses by picornaviruses. *Cytokine and Growth Factor Reviews*, **2014**, 25, 577-85	17.9	42
138	Polyadenylation of genomic RNA and initiation of antigenomic RNA in a positive-strand RNA virus are controlled by the same cis-element. *Nucleic Acids Research*, **2006**, 34, 2953-65	20.1	42
137	Foot-and-Mouth Disease Virus Leader Protease Cleaves G3BP1 and G3BP2 and Inhibits Stress Granule Formation. *Journal of Virology*, **2019**, 93,	6.6	42
136	Irreversible inactivation of ISG15 by a viral leader protease enables alternative infection detection strategies. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 2371-2376	11.5	41
135	Highly Pathogenic Influenza A(H5Nx) Viruses with Altered H5 Receptor-Binding Specificity. *Emerging Infectious Diseases*, **2017**, 23, 220-231	10.2	40
134	An siRNA screen for ATG protein depletion reveals the extent of the unconventional functions of the autophagy proteome in virus replication. *Journal of Cell Biology*, **2016**, 214, 619-35	7.3	40
133	Antiapoptotic activity of the cardiovirus leader protein, a viral "security" protein. *Journal of Virology* , **2009**, 83, 7273-84	6.6	40
132	Differential effects of the putative GBF1 inhibitors Golgicide A and AG1478 on enterovirus replication. *Journal of Virology*, **2010**, 84, 7535-42	6.6	39
131	Biological significance of a human enterovirus B-specific RNA element in the 3Snontranslated region. *Journal of Virology*, **2002**, 76, 9900-9	6.6	39

130	Mutational analysis of different regions in the coxsackievirus 2B protein: requirements for homo-multimerization, membrane permeabilization, subcellular localization, and virus replication. *Journal of Biological Chemistry*, **2004**, 279, 19924-35	5.4	38
129	Fluoxetine Inhibits Enterovirus Replication by Targeting the Viral 2C Protein in a Stereospecific Manner. *ACS Infectious Diseases*, **2019**, 5, 1609-1623	5.5	37
128	Coxsackie B virus infection of mice: inoculation by the oral route protects the pancreas from damage, but not from infection. *Journal of General Virology*, **2005**, 86, 3271-3280	4.9	36
127	Feline Calicivirus Infection Disrupts Assembly of Cytoplasmic Stress Granules and Induces G3BP1 Cleavage. *Journal of Virology*, **2016**, 90, 6489-6501	6.6	35
126	GBF1- and ACBD3-independent recruitment of PI4KIIIβ to replication sites by rhinovirus 3A proteins. *Journal of Virology*, **2015**, 89, 1913-8	6.6	34
125	An IFIH1 gene polymorphism associated with risk for autoimmunity regulates canonical antiviral defence pathways in Coxsackievirus infected human pancreatic islets. *Scientific Reports*, **2016**, 6, 39378	4.9	34
124	Mutation of the Second Sialic Acid-Binding Site, Resulting in Reduced Neuraminidase Activity, Preceded the Emergence of H7N9 Influenza A Virus. *Journal of Virology*, **2017**, 91,	6.6	33
123	Evolution of the hemagglutinin protein of the new pandemic H1N1 influenza virus: maintaining optimal receptor binding by compensatory substitutions. *Journal of Virology*, **2013**, 87, 13868-77	6.6	33
122	Characterization of Epitope-Specific Anti-Respiratory Syncytial Virus (Anti-RSV) Antibody Responses after Natural Infection and after Vaccination with Formalin-Inactivated RSV. *Journal of Virology*, **2016**, 90, 5965-5977	6.6	33
121	Knockout of cGAS and STING Rescues Virus Infection of Plasmid DNA-Transfected Cells. *Journal of Virology*, **2015**, 89, 11169-73	6.6	32
120	Role of enhanced receptor engagement in the evolution of a pandemic acute hemorrhagic conjunctivitis virus. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 397-402	11.5	32
119	Coronavirus receptor switch explained from the stereochemistry of protein-carbohydrate interactions and a single mutation. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E3111-9	11.5	31
118	Identification of potential recombination breakpoints in human parechoviruses. *Journal of Virology*, **2009**, 83, 3379-83	6.6	30
117	Uncovering oxysterol-binding protein (OSBP) as a target of the anti-enteroviral compound TTP-8307. *Antiviral Research*, **2017**, 140, 37-44	10.8	29
116	Cholesterol shuttling is important for RNA replication of coxsackievirus B3 and encephalomyocarditis virus. *Cellular Microbiology*, **2015**, 17, 1144-56	3.9	29
115	Escaping Host Factor PI4KB Inhibition: Enterovirus Genomic RNA Replication in the Absence of Replication Organelles. *Cell Reports*, **2017**, 21, 587-599	10.6	28
114	ACBD3 Is an Essential Pan-enterovirus Host Factor That Mediates the Interaction between Viral 3A Protein and Cellular Protein PI4KB. *MBio*, **2019**, 10,	7.8	28
113	Binding of glutathione to enterovirus capsids is essential for virion morphogenesis. *PLoS Pathogens* , **2014**, 10, e1004039	7.6	28

112	Origins of Enterovirus Replication Organelles Established by Whole-Cell Electron Microscopy. *MBio*, **2019**, 10,	7.8	27
111	Phagocytosis of enterovirus-infected pancreatic beta-cells triggers innate immune responses in human dendritic cells. *Diabetes*, **2010**, 59, 1182-91	0.9	27
110	Echovirus infection causes rapid loss-of-function and cell death in human dendritic cells. *Cellular Microbiology*, **2007**, 9, 1507-18	3.9	27
109	Essential Role of Enterovirus 2A Protease in Counteracting Stress Granule Formation and the Induction of Type I Interferon. *Journal of Virology*, **2019**, 93,	6.6	26
108	Development of a SARS-CoV-2 Total Antibody Assay and the Dynamics of Antibody Response over Time in Hospitalized and Nonhospitalized Patients with COVID-19. *Journal of Immunology*, **2020**, 205, 3491-3499	5.3	26
107	Picornavirus infection induces temporal release of multiple extracellular vesicle subsets that differ in molecular composition and infectious potential. *PLoS Pathogens*, **2019**, 15, e1007594	7.6	26
106	Posaconazole inhibits dengue virus replication by targeting oxysterol-binding protein. *Antiviral Research*, **2018**, 157, 68-79	10.8	25
105	Structure-function analysis of the coxsackievirus protein 3A: identification of residues important for dimerization, viral rna replication, and transport inhibition. *Journal of Biological Chemistry*, **2006**, 281, 28232-43	5.4	25
104	Identification and characterization of a proteolytically primed form of the murine coronavirus spike proteins after fusion with the target cell. *Journal of Virology*, **2014**, 88, 4943-52	6.6	24
103	Random mutagenesis defines a domain of Theiler's virus leader protein that is essential for antagonism of nucleocytoplasmic trafficking and cytokine gene expression. *Journal of Virology*, **2009**, 83, 11223-32	6.6	24
102	Differential membrane association properties and regulation of class I and class II Arfs. *Traffic*, **2009**, 10, 316-23	5.7	24
101	Coronavirus hemagglutinin-esterase and spike proteins coevolve for functional balance and optimal virion avidity. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 25759-25770	11.5	24
100	A Single Point Mutation Creating a Furin Cleavage Site in the Spike Protein Renders Porcine Epidemic Diarrhea Coronavirus Trypsin Independent for Cell Entry and Fusion. *Journal of Virology*, **2015**, 89, 8077-81	6.6	23
99	Molecular basis for the acid-initiated uncoating of human enterovirus D68. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E12209-E12217	11.5	23
98	The 2nd sialic acid-binding site of influenza A virus neuraminidase is an important determinant of the hemagglutinin-neuraminidase-receptor balance. *PLoS Pathogens*, **2019**, 15, e1007860	7.6	22
97	Identification of Residues That Affect Oligomerization and/or Enzymatic Activity of Influenza Virus H5N1 Neuraminidase Proteins. *Journal of Virology*, **2016**, 90, 9457-70	6.6	22
96	Phagocytosis of picornavirus-infected cells induces an RNA-dependent antiviral state in human dendritic cells. *Journal of Virology*, **2008**, 82, 2930-7	6.6	22
95	Serologic Screening of Severe Acute Respiratory Syndrome Coronavirus 2 Infection in Cats and Dogs during First Coronavirus Disease Wave, the Netherlands. *Emerging Infectious Diseases*, **2021**, 27, 1362-1370	10.2	22

94	Synthesis and biological properties of novel brefeldin A analogues. *Journal of Medicinal Chemistry*, **2013**, 56, 5872-84	8.3	21
93	The crystal structure of a cardiovirus RNA-dependent RNA polymerase reveals an unusual conformation of the polymerase active site. *Journal of Virology*, **2014**, 88, 5595-607	6.6	21
92	Substrate Binding by the Second Sialic Acid-Binding Site of Influenza A Virus N1 Neuraminidase Contributes to Enzymatic Activity. *Journal of Virology*, **2018**, 92,	6.6	20
91	Modification of picornavirus genomic RNA using SclickSchemistry shows that unlinking of the VPg peptide is dispensable for translation and replication of the incoming viral RNA. *Nucleic Acids Research*, **2014**, 42, 2473-82	20.1	20
90	Cross-talk between human dendritic cell subsets influences expression of RNA sensors and inhibits picornavirus infection. *Journal of Innate Immunity*, **2010**, 2, 360-70	6.9	20
89	Seroepidemiology of Saffold cardiovirus type 2. *Emerging Infectious Diseases*, **2011**, 17, 1572-3	10.2	19
88	Structural insights into the cross-neutralization of SARS-CoV and SARS-CoV-2 by the human monoclonal antibody 47D11. *Science Advances*, **2021**, 7,	14.3	19
87	Structure of the pyrimidine-rich internal loop in the poliovirus 3SUTR: the importance of maintaining pseudo-2-fold symmetry in RNA helices containing two adjacent non-canonical base-pairs. *Journal of Molecular Biology*, **2003**, 331, 759-69	6.5	18
86	Synthesis and antiviral effect of novel fluoxetine analogues as enterovirus 2C inhibitors. *Antiviral Research*, **2020**, 178, 104781	10.8	17
85	Serological Screening for Coronavirus Infections in Cats. *Viruses*, **2019**, 11,	6.2	17
84	Intracellular transport, sorting, and proteolytic processing of regulated secretory proteins does not require protein sulfation. *Molecular and Cellular Endocrinology*, **1997**, 136, 29-35	4.4	17
83	Inhibition of the integrated stress response by viral proteins that block p-eIF2-eIF2B association. *Nature Microbiology*, **2020**, 5, 1361-1373	26.6	17
82	Bypassing pan-enterovirus host factor PLA2G16. *Nature Communications*, **2019**, 10, 3171	17.4	16
81	SARS-CoV-2 neutralizing human antibodies protect against lower respiratory tract disease in a hamster model		16
80	Dissecting distinct proteolytic activities of FMDV Lpro implicates cleavage and degradation of RLR signaling proteins, not its deISGylase/DUB activity, in type I interferon suppression. *PLoS Pathogens* , **2020**, 16, e1008702	7.6	16
79	Cryo-EM structure of coronavirus-HKU1 haemagglutinin esterase reveals architectural changes arising from prolonged circulation in humans. *Nature Communications*, **2020**, 11, 4646	17.4	16
78	SARS-CoV-2 Neutralizing Human Antibodies Protect Against Lower Respiratory Tract Disease in a Hamster Model. *Journal of Infectious Diseases*, **2021**, 223, 2020-2028	7	16
77	Mutations in Encephalomyocarditis Virus 3A Protein Uncouple the Dependency of Genome Replication on Host Factors Phosphatidylinositol 4-Kinase IIIand Oxysterol-Binding Protein. *MSphere*, **2016**, 1,	5	16

76	Deletion of Cytoplasmic Double-Stranded RNA Sensors Does Not Uncover Viral Small Interfering RNA Production in Human Cells. *MSphere*, **2017**, 2,	5	15
75	Manipulation of disulfide bonds differentially affects the intracellular transport, sorting, and processing of neuroendocrine secretory proteins. *Journal of Neurochemistry*, **1998**, 71, 402-9	6	15
74	Differential IFN-alpha/beta production suppressing capacities of the leader proteins of mengovirus and foot-and-mouth disease virus. *Cellular Microbiology*, **2010**, 12, 310-7	3.9	14
73	Structural and functional integrity of the coxsackievirus B3 oriR: spacing between coaxial RNA helices. *Journal of General Virology*, **2006**, 87, 689-695	4.9	14
72	Structure-activity relationship study of itraconazole, a broad-range inhibitor of picornavirus replication that targets oxysterol-binding protein (OSBP). *Antiviral Research*, **2018**, 156, 55-63	10.8	14
71	No evidence for viral small RNA production and antiviral function of Argonaute 2 in human cells. *Scientific Reports*, **2019**, 9, 13752	4.9	13
70	Convergent evolution in the mechanisms of ACBD3 recruitment to picornavirus replication sites. *PLoS Pathogens*, **2019**, 15, e1007962	7.6	13
69	Structure and Genome Release Mechanism of the Human Cardiovirus Saffold Virus 3. *Journal of Virology*, **2016**, 90, 7628-39	6.6	12
68	Identification of the Cell-Surface Protease ADAM9 as an Entry Factor for Encephalomyocarditis Virus. *MBio*, **2019**, 10,	7.8	12
67	Application of a cell-based protease assay for testing inhibitors of picornavirus 3C proteases. *Antiviral Research*, **2014**, 103, 17-24	10.8	12
66	Breaking pseudo-twofold symmetry in the poliovirus 3SUTR Y-stem by restoring Watson-Crick base pairs. *Rna*, **2007**, 13, 781-92	5.8	12
65	Integrative Genomics-Based Discovery of Novel Regulators of the Innate Antiviral Response. *PLoS Computational Biology*, **2015**, 11, e1004553	5	12
64	Coxsackievirus cloverleaf RNA containing a 5Striphosphate triggers an antiviral response via RIG-I activation. *PLoS ONE*, **2014**, 9, e95927	3.7	12
63	Interferon-beta expression and type I interferon receptor signaling of hepatocytes prevent hepatic necrosis and virus dissemination in Coxsackievirus B3-infected mice. *PLoS Pathogens*, **2018**, 14, e1007235	7.6	11
62	XMRV and CFS--the sad end of a story. *Lancet, The*, **2012**, 379, e27-8	40	11
61	Rational design of highly potent broad-spectrum enterovirus inhibitors targeting the nonstructural protein 2C. *PLoS Biology*, **2020**, 18, e3000904	9.7	11
60	Targeting of the hydrophobic metabolome by pathogens. *Traffic*, **2015**, 16, 439-60	5.7	10
59	Identification of fukinolic acid from Cimicifuga heracleifolia and its derivatives as novel antiviral compounds against enterovirus A71 infection. *International Journal of Antimicrobial Agents*, **2019**, 53, 128-136	14.3	10

58	In silico structure-based design and synthesis of novel anti-RSV compounds. *Antiviral Research*, **2015**, 122, 46-50	10.8	10
57	Characterization of the c10orf76-PI4KB complex and its necessity for Golgi PI4P levels and enterovirus replication. *EMBO Reports*, **2020**, 21, e48441	6.5	10
56	Modulation of proteolytic polyprotein processing by coxsackievirus mutants resistant to inhibitors targeting phosphatidylinositol-4-kinase III□or oxysterol binding protein. *Antiviral Research*, **2017**, 147, 86-90	10.8	9
55	Dissecting virus entry: replication-independent analysis of virus binding, internalization, and penetration using minimal complementation of □galactosidase. *PLoS ONE*, **2014**, 9, e101762	3.7	9
54	Highly potent anti-SARS-CoV-2 multivalent DARPin therapeutic candidates		9
53	Isolation of cross-reactive monoclonal antibodies against divergent human coronaviruses that delineate a conserved and vulnerable site on the spike protein		9
52	Tyrphostin AG1478 Inhibits Encephalomyocarditis Virus and Hepatitis C Virus by Targeting Phosphatidylinositol 4-Kinase III□*Antimicrobial Agents and Chemotherapy*, **2016**, 60, 6402-6	5.9	9
51	A plug-and-play platform of ratiometric bioluminescent sensors for homogeneous immunoassays. *Nature Communications*, **2021**, 12, 4586	17.4	9
50	SARS-CoV-2 mucosal antibody development and persistence and their relation to viral load and COVID-19 symptoms. *Nature Communications*, **2021**, 12, 5621	17.4	9
49	Second sialic acid-binding site of influenza A virus neuraminidase: binding receptors for efficient release. *FEBS Journal*, **2021**, 288, 5598-5612	5.7	8
48	Intra-host emergence of an enterovirus A71 variant with enhanced PSGL1 usage and neurovirulence. *Emerging Microbes and Infections*, **2019**, 8, 1076-1085	18.9	8
47	Differential susceptibility and response of primary human myeloid BDCA1(+) dendritic cells to infection with different Enteroviruses. *PLoS ONE*, **2013**, 8, e62502	3.7	8
46	Recombinant Soluble Respiratory Syncytial Virus F Protein That Lacks Heptad Repeat B, Contains a GCN4 Trimerization Motif and Is Not Cleaved Displays Prefusion-Like Characteristics. *PLoS ONE*, **2015**, 10, e0130829	3.7	8
45	Fitness and virulence of a coxsackievirus mutant that can circumnavigate the need for phosphatidylinositol 4-kinase class III beta. *Journal of Virology*, **2014**, 88, 3048-51	6.6	7
44	Enterovirus-infected □cells induce distinct response patterns in BDCA1+ and BDCA3+ human dendritic cells. *PLoS ONE*, **2015**, 10, e0121670	3.7	7
43	Mutation of the second sialic acid-binding site of influenza A virus neuraminidase drives compensatory mutations in hemagglutinin. *PLoS Pathogens*, **2020**, 16, e1008816	7.6	7
42	Dynamic remodelling of the human host cell proteome and phosphoproteome upon enterovirus infection. *Nature Communications*, **2020**, 11, 4332	17.4	7
41	Lipid Droplets Grease Enterovirus Replication. *Cell Host and Microbe*, **2019**, 26, 149-151	23.4	6

40	Saffold cardiovirus and multiple sclerosis: no evidence for an association. *Annals of Clinical and Translational Neurology*, **2014**, 1, 618-21	5.3	6
39	Interactions between viral and prokaryotic pathogens in a mixed infection with cardiovirus and mycoplasma. *Journal of Virology*, **2009**, 83, 9940-51	6.6	6
38	Host factor prioritization for pan-viral genetic perturbation screens using random intercept models and network propagation. *PLoS Computational Biology*, **2020**, 16, e1007587	5	5
37	Fatal intrauterine infection associated with Mycoplasma hominis. *Clinical Infectious Diseases*, **1992**, 15, 753-4	11.6	5
36	An ACE2-blocking antibody confers broad neutralization and protection against Omicron and other SARS-CoV-2 variants of concern.. *Science Immunology*, **2022**, eabp9312	28	5
35	Neurotropism of Saffold virus in a mouse model. *Journal of General Virology*, **2016**, 97, 1350-1355	4.9	4
34	Development of a SARS-CoV-2 total antibody assay and the dynamics of antibody response over time in hospitalized and non-hospitalized patients with COVID-19		4
33	Serological Screening of Influenza A Virus Antibodies in Cats and Dogs Indicates Frequent Infection with Different Subtypes. *Journal of Clinical Microbiology*, **2020**, 58,	9.7	4
32	Immunologic defects in severe mucocutaneous HSV-2 infections: Response to IFN-□therapy. *Journal of Allergy and Clinical Immunology*, **2016**, 138, 895-898	11.5	4
31	Development and Validation of a S1 Protein-Based ELISA for the Specific Detection of Antibodies against Equine Coronavirus. *Viruses*, **2019**, 11,	6.2	4
30	Multispecific DARPin□ therapeutics demonstrate very high potency against SARS-CoV-2 variants in vitro		4
29	Enhanced Enterovirus D68 Replication in Neuroblastoma Cells Is Associated with a Cell Culture-Adaptive Amino Acid Substitution in VP1. *MSphere*, **2020**, 5,	5	3
28	Cholesterol: fa(s)t-food for enterovirus genome replication. *Trends in Microbiology*, **2013**, 21, 560-1	12.4	3
27	An alphavirus replicon-based vaccine expressing a stabilized Spike antigen induces protective immunity and prevents transmission of SARS-CoV-2 between cats. *Npj Vaccines*, **2021**, 6, 122	9.5	3
26	Coronavirus hemagglutinin-esterase and spike proteins co-evolve for functional balance and optimal virion avidity		3
25	Trans-complementation of a genetic defect in the coxsackie B3 virus 2B protein. *Journal of General Virology*, **2002**, 83, 341-350	4.9	3
24	Respiratory mucus as a virus-host range determinant. *Trends in Microbiology*, **2021**, 29, 983-992	12.4	3
23	Analysis of the Evolution of Pandemic Influenza A(H1N1) Virus Neuraminidase Reveals Entanglement of Different Phenotypic Characteristics. *MBio*, **2021**, 12,	7.8	3

22	Unusual loop-sequence flexibility of the proximal RNA replication element in EMCV. *PLoS ONE*, **2011**, 6, e24818	3.7	2
21	RAPPID: a platform of ratiometric bioluminescent sensors for homogeneous immunoassays		2
20	An alphavirus replicon-based vaccine expressing a stabilized Spike antigen induces sterile immunity and prevents transmission of SARS-CoV-2 between cats		2
19	Elevated mucosal antibody responses against SARS-CoV-2 are correlated with lower viral load and faster decrease in systemic COVID-19 symptoms		2
18	Reduction of phospholipase D activity during coxsackievirus infection. *Journal of General Virology*, **2007**, 88, 3027-3030	4.9	1
17	Fluoxetine targets an allosteric site in the enterovirus 2C AAA+ ATPase and stabilizes a ring-shaped hexameric complex.. *Science Advances*, **2022**, 8, eabj7615	14.3	1
16	A human monoclonal antibody targeting a conserved pocket in the SARS-CoV-2 receptor-binding domain core		1
15	Enterocytes, fibroblasts and myeloid cells synergize in anti-bacterial and anti-viral pathways with IL22 as the central cytokine. *Communications Biology*, **2021**, 4, 631	6.7	1
14	Immunometabolism pathways as the basis for innovative anti-viral strategies (INITIATE): A Marie Sklodowska-Curie innovative training network. *Virus Research*, **2020**, 287, 198094	6.4	0
13	Bithiazole Inhibitors of Phosphatidylinositol 4-Kinase (PI4KIII)as Broad-Spectrum Antivirals Blocking the Replication of SARS-CoV-2, Zika Virus, and Human Rhinoviruses. *ChemMedChem*, **2021**, 16, 3548-3552	3.7	0
12	Remodeling Cellular Membranes181-193		
11	Rational design of highly potent broad-spectrum enterovirus inhibitors targeting the nonstructural protein 2C **2020**, 18, e3000904		
10	Rational design of highly potent broad-spectrum enterovirus inhibitors targeting the nonstructural protein 2C **2020**, 18, e3000904		
9	Rational design of highly potent broad-spectrum enterovirus inhibitors targeting the nonstructural protein 2C **2020**, 18, e3000904		
8	Rational design of highly potent broad-spectrum enterovirus inhibitors targeting the nonstructural protein 2C **2020**, 18, e3000904		
7	Rational design of highly potent broad-spectrum enterovirus inhibitors targeting the nonstructural protein 2C **2020**, 18, e3000904		
6	Rational design of highly potent broad-spectrum enterovirus inhibitors targeting the nonstructural protein 2C **2020**, 18, e3000904		
5	Host factor prioritization for pan-viral genetic perturbation screens using random intercept models and network propagation **2020**, 16, e1007587		

4	Host factor prioritization for pan-viral genetic perturbation screens using random intercept models and network propagation **2020**, 16, e1007587	
3	Host factor prioritization for pan-viral genetic perturbation screens using random intercept models and network propagation **2020**, 16, e1007587	
2	Host factor prioritization for pan-viral genetic perturbation screens using random intercept models and network propagation **2020**, 16, e1007587	
1	Rhinoviruses usurp STING for replication.. *Nature Microbiology*, **2022**, 7, 605-606	26.6