Rachel L Graham

List of Publications by Year in Descending Order

57 papers	10,939 citations	34 h-index	62 g-index
62 ext. papers	13,296 ext. citations	10.2 avg, IF	7.03 L-index

#	Paper	IF	Citations
57	Novel modulators of p53-signaling encoded by unknown genes of emerging viruses. *PLoS Pathogens*, **2021**, 17, e1009033	7.6	7
56	SARS-CoV-2: Combating Coronavirus Emergence. *Immunity*, **2020**, 52, 734-736	32.3	17
55	The Current and Future State of Vaccines, Antivirals and Gene Therapies Against Emerging Coronaviruses. *Frontiers in Microbiology*, **2020**, 11, 658	5.7	61
54	Remdesivir Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. *Cell Reports*, **2020**, 32, 107940	10.6	260
53	Receptor Recognition by the Novel Coronavirus from Wuhan: an Analysis Based on Decade-Long Structural Studies of SARS Coronavirus. *Journal of Virology*, **2020**, 94,	6.6	2625
52	An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 in human airway epithelial cell cultures and multiple coronaviruses in mice. *Science Translational Medicine*, **2020**, 12,	17.5	534
51	Remdesivir potently inhibits SARS-CoV-2 in human lung cells and chimeric SARS-CoV expressing the SARS-CoV-2 RNA polymerase in mice **2020**,		15
50	Comparative analysis of coronavirus genomic RNA structure reveals conservation in SARS-like coronaviruses **2020**,		21
49	Trypsin Treatment Unlocks Barrier for Zoonotic Bat Coronavirus Infection. *Journal of Virology*, **2020**, 94,	6.6	116
48	Bile Facilitates Human Norovirus Interactions with Diverse Histoblood Group Antigens, Compensating for Capsid Microvariation Observed in 2016-2017 GII.2 Strains. *Viruses*, **2020**, 12,	6.2	5
47	Swine acute diarrhea syndrome coronavirus replication in primary human cells reveals potential susceptibility to infection. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 26915-26925	11.5	49
46	SARS-CoV-2 D614G variant exhibits efficient replication ex vivo and transmission in vivo. *Science*, **2020**, 370, 1464-1468	33.3	517
45	Broad spectrum antiviral remdesivir inhibits human endemic and zoonotic deltacoronaviruses with a highly divergent RNA dependent RNA polymerase. *Antiviral Research*, **2019**, 169, 104541	10.8	288
44	GII.4 Human Norovirus: Surveying the Antigenic Landscape. *Viruses*, **2019**, 11,	6.2	22
43	Human Norovirus Epitope D Plasticity Allows Escape from Antibody Immunity without Loss of Capacity for Binding Cellular Ligands. *Journal of Virology*, **2019**, 93,	6.6	16
42	Coronavirus Susceptibility to the Antiviral Remdesivir (GS-5734) Is Mediated by the Viral Polymerase and the Proofreading Exoribonuclease. *MBio*, **2018**, 9,	7.8	880
41	Viral metagenomics, protein structure, and reverse genetics: Key strategies for investigating coronaviruses. *Virology*, **2018**, 517, 30-37	3.6	12

40	A spike-modified Middle East respiratory syndrome coronavirus (MERS-CoV) infectious clone elicits mild respiratory disease in infected rhesus macaques. *Scientific Reports*, **2018**, 8, 10727	4.9	14
39	Combination Attenuation Offers Strategy for Live Attenuated Coronavirus Vaccines. *Journal of Virology*, **2018**, 92,	6.6	48
38	Conformational Occlusion of Blockade Antibody Epitopes, a Novel Mechanism of GII.4 Human Norovirus Immune Evasion. *MSphere*, **2018**, 3,	5	31
37	Evaluation of a recombination-resistant coronavirus as a broadly applicable, rapidly implementable vaccine platform. *Communications Biology*, **2018**, 1, 179	6.7	31
36	Genetic Variation between Dengue Virus Type 4 Strains Impacts Human Antibody Binding and Neutralization. *Cell Reports*, **2018**, 25, 1214-1224	10.6	27
35	Bat Caliciviruses and Human Noroviruses Are Antigenically Similar and Have Overlapping Histo-Blood Group Antigen Binding Profiles. *MBio*, **2018**, 9,	7.8	16
34	Jumping species-a mechanism for coronavirus persistence and survival. *Current Opinion in Virology*, **2017**, 23, 1-7	7.5	87
33	Expanded subgenomic mRNA transcriptome and coding capacity of a nidovirus. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E8895-E8904	11.5	20
32	MERS-CoV Accessory ORFs Play Key Role for Infection and Pathogenesis. *MBio*, **2017**, 8,	7.8	99
31	Middle East Respiratory Syndrome Coronavirus Nonstructural Protein 16 Is Necessary for Interferon Resistance and Viral Pathogenesis. *MSphere*, **2017**, 2,	5	71
30	Broad-spectrum antiviral GS-5734 inhibits both epidemic and zoonotic coronaviruses. *Science Translational Medicine*, **2017**, 9,	17.5	983
29	SARS-like WIV1-CoV poised for human emergence. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 3048-53	11.5	279
28	A SARS-like cluster of circulating bat coronaviruses shows potential for human emergence. *Nature Medicine*, **2015**, 21, 1508-13	50.5	529
27	Identification of human neutralizing antibodies against MERS-CoV and their role in virus adaptive evolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E2018-26	11.5	189
26	Evaluation of serologic and antigenic relationships between middle eastern respiratory syndrome coronavirus and other coronaviruses to develop vaccine platforms for the rapid response to emerging coronaviruses. *Journal of Infectious Diseases*, **2014**, 209, 995-1006	7	83
25	A mouse model for Betacoronavirus subgroup 2c using a bat coronavirus strain HKU5 variant. *MBio*, **2014**, 5, e00047-14	7.8	47
24	Coronavirus replicase-reporter fusions provide quantitative analysis of replication and replication complex formation. *Journal of Virology*, **2014**, 88, 5319-27	6.6	18
23	A decade after SARS: strategies for controlling emerging coronaviruses. *Nature Reviews Microbiology*, **2013**, 11, 836-48	22.2	448

22	Cell host response to infection with novel human coronavirus EMC predicts potential antivirals and important differences with SARS coronavirus. *MBio*, **2013**, 4, e00165-13	7.8	211
21	Reverse genetics with a full-length infectious cDNA of the Middle East respiratory syndrome coronavirus. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 16157-62	11.5	213
20	A live, impaired-fidelity coronavirus vaccine protects in an aged, immunocompromised mouse model of lethal disease. *Nature Medicine*, **2012**, 18, 1820-6	50.5	181
19	Coronaviruses: an RNA proofreading machine regulates replication fidelity and diversity. *RNA Biology*, **2011**, 8, 270-9	4.8	329
18	Infidelity of SARS-CoV Nsp14-exonuclease mutant virus replication is revealed by complete genome sequencing. *PLoS Pathogens*, **2010**, 6, e1000896	7.6	304
17	Recombination, reservoirs, and the modular spike: mechanisms of coronavirus cross-species transmission. *Journal of Virology*, **2010**, 84, 3134-46	6.6	441
16	SARS coronavirus replicase proteins in pathogenesis. *Virus Research*, **2008**, 133, 88-100	6.4	94
15	Synthetic recombinant bat SARS-like coronavirus is infectious in cultured cells and in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 19944-9	11.5	178
14	Murine coronaviruses encoding nsp2 at different genomic loci have altered replication, protein expression, and localization. *Journal of Virology*, **2008**, 82, 11964-9	6.6	25
13	Analysis of murine hepatitis virus strain A59 temperature-sensitive mutant TS-LA6 suggests that nsp10 plays a critical role in polyprotein processing. *Journal of Virology*, **2007**, 81, 7086-98	6.6	38
12	Murine hepatitis virus replicase protein nsp10 is a critical regulator of viral RNA synthesis. *Journal of Virology*, **2007**, 81, 6356-68	6.6	42
11	Processing of open reading frame 1a replicase proteins nsp7 to nsp10 in murine hepatitis virus strain A59 replication. *Journal of Virology*, **2007**, 81, 10280-91	6.6	60
10	Replication of murine hepatitis virus is regulated by papain-like proteinase 1 processing of nonstructural proteins 1, 2, and 3. *Journal of Virology*, **2006**, 80, 11610-20	6.6	31
9	The nsp2 proteins of mouse hepatitis virus and SARS coronavirus are dispensable for viral replication. *Advances in Experimental Medicine and Biology*, **2006**, 581, 67-72	3.6	20
8	MHV-A59 ORF1a replicase protein nsp7-nsp10 processing in replication. *Advances in Experimental Medicine and Biology*, **2006**, 581, 101-4	3.6	3
7	Single-amino-acid substitutions in open reading frame (ORF) 1b-nsp14 and ORF 2a proteins of the coronavirus mouse hepatitis virus are attenuating in mice. *Journal of Virology*, **2005**, 79, 3391-400	6.6	83
6	The nsp2 replicase proteins of murine hepatitis virus and severe acute respiratory syndrome coronavirus are dispensable for viral replication. *Journal of Virology*, **2005**, 79, 13399-411	6.6	139
5	Cleavage between replicase proteins p28 and p65 of mouse hepatitis virus is not required for virus replication. *Journal of Virology*, **2004**, 78, 5957-65	6.6	42

List of Publications

4	Remdesivir Potently Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. *SSRN Electronic Journal*,	1	11
3	An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 and multiple endemic, epidemic and bat coronavirus		11
2	Combination attenuation offers strategy for live-attenuated coronavirus vaccines		3
1	Trypsin treatment unlocks barrier for zoonotic coronaviruses infection		3