

Timothy P Sheahan

List of Publications by Citations

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84
papers

8,607
citations

37
h-index

89
g-index

89
ext. papers

11,144
ext. citations

13
avg, IF

6.11
L-index

#	Paper	IF	Citations
84	Comparative therapeutic efficacy of remdesivir and combination lopinavir, ritonavir, and interferon beta against MERS-CoV. <i>Nature Communications</i> , 2020 , 11, 222	17.4	1059
83	Broad-spectrum antiviral GS-5734 inhibits both epidemic and zoonotic coronaviruses. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	983
82	Coronavirus Susceptibility to the Antiviral Remdesivir (GS-5734) Is Mediated by the Viral Polymerase and the Proofreading Exoribonuclease. <i>MBio</i> , 2018 , 9,	7.8	880
81	An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 in human airway epithelial cell cultures and multiple coronaviruses in mice. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	534
80	Complement Activation Contributes to Severe Acute Respiratory Syndrome Coronavirus Pathogenesis. <i>MBio</i> , 2018 , 9,	7.8	431
79	A mouse-adapted model of SARS-CoV-2 to test COVID-19 countermeasures. <i>Nature</i> , 2020 , 586, 560-566	50.4	299
78	Broad spectrum antiviral remdesivir inhibits human endemic and zoonotic deltacoronaviruses with a highly divergent RNA dependent RNA polymerase. <i>Antiviral Research</i> , 2019 , 169, 104541	10.8	288
77	SARS-like WIV1-CoV poised for human emergence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3048-53	11.5	279
76	Remdesivir Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. <i>Cell Reports</i> , 2020 , 32, 107940	10.6	260
75	A Mouse-Adapted SARS-CoV-2 Induces Acute Lung Injury and Mortality in Standard Laboratory Mice. <i>Cell</i> , 2020 , 183, 1070-1085.e12	56.2	224
74	Elicitation of Potent Neutralizing Antibody Responses by Designed Protein Nanoparticle Vaccines for SARS-CoV-2. <i>Cell</i> , 2020 , 183, 1367-1382.e17	56.2	217
73	Vaccine efficacy in senescent mice challenged with recombinant SARS-CoV bearing epidemic and zoonotic spike variants. <i>PLoS Medicine</i> , 2006 , 3, e525	11.6	215
72	Synthetic recombinant bat SARS-like coronavirus is infectious in cultured cells and in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 19944-9	11.5	178
71	Modeling hepatitis C virus infection using human induced pluripotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2544-8	11.5	175
70	Antibody potency, effector function, and combinations in protection and therapy for SARS-CoV-2 infection in vivo. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	171
69	MyD88 is required for protection from lethal infection with a mouse-adapted SARS-CoV. <i>PLoS Pathogens</i> , 2008 , 4, e1000240	7.6	158
68	Hepatitis C virus induces interferon- β and interferon-stimulated genes in primary liver cultures. <i>Hepatology</i> , 2011 , 54, 1913-23	11.2	143

67	Early upregulation of acute respiratory distress syndrome-associated cytokines promotes lethal disease in an aged-mouse model of severe acute respiratory syndrome coronavirus infection. <i>Journal of Virology</i> , 2009 , 83, 7062-74	6.6	132
66	Small-Molecule Antiviral β -Hydroxycytidine Inhibits a Proofreading-Intact Coronavirus with a High Genetic Barrier to Resistance. <i>Journal of Virology</i> , 2019 , 93,	6.6	128
65	Structural basis for potent cross-neutralizing human monoclonal antibody protection against lethal human and zoonotic severe acute respiratory syndrome coronavirus challenge. <i>Journal of Virology</i> , 2008 , 82, 3220-35	6.6	128
64	Animal models and vaccines for SARS-CoV infection. <i>Virus Research</i> , 2008 , 133, 20-32	6.4	111
63	A human monoclonal antibody targeting scavenger receptor class B type I precludes hepatitis C virus infection and viral spread in vitro and in vivo. <i>Hepatology</i> , 2012 , 55, 364-72	11.2	101
62	Genomic RNA Elements Drive Phase Separation of the SARS-CoV-2 Nucleocapsid. <i>Molecular Cell</i> , 2020 , 80, 1078-1091.e6	17.6	98
61	Mechanisms of zoonotic severe acute respiratory syndrome coronavirus host range expansion in human airway epithelium. <i>Journal of Virology</i> , 2008 , 82, 2274-85	6.6	94
60	Interferon lambda alleles predict innate antiviral immune responses and hepatitis C virus permissiveness. <i>Cell Host and Microbe</i> , 2014 , 15, 190-202	23.4	82
59	Escape from human monoclonal antibody neutralization affects in vitro and in vivo fitness of severe acute respiratory syndrome coronavirus. <i>Journal of Infectious Diseases</i> , 2010 , 201, 946-55	7	79
58	Expression of paramyxovirus V proteins promotes replication and spread of hepatitis C virus in cultures of primary human fetal liver cells. <i>Hepatology</i> , 2011 , 54, 1901-12	11.2	74
57	β -N4-hydroxycytidine Inhibits SARS-CoV-2 Through Lethal Mutagenesis But Is Also Mutagenic To Mammalian Cells. <i>Journal of Infectious Diseases</i> , 2021 , 224, 415-419	7	65
56	Successful vaccination strategies that protect aged mice from lethal challenge from influenza virus and heterologous severe acute respiratory syndrome coronavirus. <i>Journal of Virology</i> , 2011 , 85, 217-30	6.6	61
55	Pathways of cross-species transmission of synthetically reconstructed zoonotic severe acute respiratory syndrome coronavirus. <i>Journal of Virology</i> , 2008 , 82, 8721-32	6.6	58
54	A mouse-adapted SARS-CoV-2 model for the evaluation of COVID-19 medical countermeasures 2020 ,		58
53	Synthetic reconstruction of zoonotic and early human severe acute respiratory syndrome coronavirus isolates that produce fatal disease in aged mice. <i>Journal of Virology</i> , 2007 , 81, 7410-23	6.6	53
52	Urgent needs of low-income and middle-income countries for COVID-19 vaccines and therapeutics. <i>Lancet, The</i> , 2021 , 397, 562-564	40	49
51	A Phase 2a clinical trial of Molnupiravir in patients with COVID-19 shows accelerated SARS-CoV-2 RNA clearance and elimination of infectious virus.. <i>Science Translational Medicine</i> , 2021 , 14, eab17430	17.5	48
50	Molnupiravir, an Oral Antiviral Treatment for COVID-19 2021 ,		48

49	The Role of Phosphodiesterase 12 (PDE12) as a Negative Regulator of the Innate Immune Response and the Discovery of Antiviral Inhibitors. <i>Journal of Biological Chemistry</i> , 2015 , 290, 19681-96	5.4	46
48	COVID-19: from epidemiology to treatment. <i>European Heart Journal</i> , 2020 , 41, 2092-2112	9.5	45
47	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. <i>Cell</i> , 2021 , 184, 5432-5447.e16	56.2	34
46	Conformational Occlusion of Blockade Antibody Epitopes, a Novel Mechanism of GII.4 Human Norovirus Immune Evasion. <i>MSphere</i> , 2018 , 3,	5	31
45	Multi-Modal Imaging with a Toolbox of Influenza A Reporter Viruses. <i>Viruses</i> , 2015 , 7, 5319-27	6.2	28
44	Specific viral RNA drives the SARS CoV-2 nucleocapsid to phase separate 2020 ,		28
43	Fc-engineered antibody therapeutics with improved anti-SARS-CoV-2 efficacy. <i>Nature</i> , 2021 , 599, 465-479	90.4	27
42	Cryo-electron Microscopy and Exploratory Antisense Targeting of the 28-kDa Frameshift Stimulation Element from the SARS-CoV-2 RNA Genome 2020 ,		26
41	Correcting COVID-19 vaccine misinformation: Lancet Commission on COVID-19 Vaccines and Therapeutics Task Force Members. <i>EClinicalMedicine</i> , 2021 , 33, 100780	11.3	26
40	Prevention and therapy of SARS-CoV-2 and the B.1.351 variant in mice. <i>Cell Reports</i> , 2021 , 36, 109450	10.6	23
39	Cryo-EM and antisense targeting of the 28-kDa frameshift stimulation element from the SARS-CoV-2 RNA genome. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 747-754	17.6	23
38	Antibody potency, effector function and combinations in protection from SARS-CoV-2 infection 2020 ,		21
37	New Methods in Tissue Engineering: Improved Models for Viral Infection. <i>Annual Review of Virology</i> , 2014 , 1, 475-499	14.6	20
36	Advances and challenges in studying hepatitis C virus in its native environment. <i>Expert Review of Gastroenterology and Hepatology</i> , 2010 , 4, 541-50	4.2	19
35	Biologic activity of nerve growth factor slowly released from microspheres. <i>Journal of Reconstructive Microsurgery</i> , 2003 , 19, 179-84; discussion 185-6	2.5	17
34	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
33	Viral genome imaging of hepatitis C virus to probe heterogeneous viral infection and responses to antiviral therapies. <i>Virology</i> , 2016 , 494, 236-47	3.6	14
32	SARS coronavirus vaccine development. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 581, 553-69	6.6	13

31	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines 2021 ,		12
30	A mechanism-based pharmacokinetic model of remdesivir leveraging interspecies scaling to simulate COVID-19 treatment in humans. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2021 , 10, 89-99	4.5	12
29	Remdesivir Potently Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. <i>SSRN Electronic Journal</i> ,	1	11
28	An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 and multiple endemic, epidemic and bat coronavirus		11
27	Baiting the cross-face nerve graft with temporary hypoglossal hookup. <i>Archives of Facial Plastic Surgery</i> , 2004 , 6, 228-33		10
26	Elicitation of potent neutralizing antibody responses by designed protein nanoparticle vaccines for SARS-CoV-2 2020 ,		10
25	Virus-Host Interactions Between Nonsecretors and Human Norovirus. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2020 , 10, 245-267	7.9	10
24	The continued epidemic threat of SARS-CoV-2 and implications for the future of global public health. <i>Current Opinion in Virology</i> , 2020 , 40, 37-40	7.5	9
23	Increasing the translation of mouse models of MERS coronavirus pathogenesis through kinetic hematological analysis. <i>PLoS ONE</i> , 2019 , 14, e0220126	3.7	9
22	Therapeutic efficacy of an oral nucleoside analog of remdesivir against SARS-CoV-2 pathogenesis in mice 2021 ,		9
21	Global public health security and justice for vaccines and therapeutics in the COVID-19 pandemic. <i>EClinicalMedicine</i> , 2021 , 39, 101053	11.3	8
20	Therapeutic treatment with an oral prodrug of the remdesivir parental nucleoside is protective against SARS-CoV-2 pathogenesis in mice.. <i>Science Translational Medicine</i> , 2022 , 14, eabm3410	17.5	7
19	Prevention and therapy of SARS-CoV-2 and the B.1.351 variant in mice 2021 ,		5
18	Resurrection of an "extinct" SARS-CoV isolate GD03 from late 2003. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 581, 547-50	3.6	5
17	Mutations in the SARS-CoV-2 RNA dependent RNA polymerase confer resistance to remdesivir by distinct mechanisms.. <i>Science Translational Medicine</i> , 2022 , eabo0718	17.5	5
16	Fc-engineered antibody therapeutics with improved efficacy against COVID-19 2021 ,		4
15	Is regulation preventing the development of therapeutics that may prevent future coronavirus pandemics?. <i>Future Virology</i> , 2018 , 13, 143-146	2.4	4
14	The silent and dangerous inequity around access to COVID-19 testing: A call to action.. <i>EClinicalMedicine</i> , 2022 , 43, 101230	11.3	3

13	Critical ACE2 Determinants of SARS-CoV-2 and Group 2B Coronavirus Infection and Replication. <i>MBio</i> , 2021 , 12,	7.8	3
12	Beyond the jab: A need for global coordination of pharmacovigilance for COVID-19 vaccine deployment. <i>EClinicalMedicine</i> , 2021 , 36, 100925	11.3	3
11	Urgent needs to accelerate the race for COVID-19 therapeutics. <i>EClinicalMedicine</i> , 2021 , 36, 100911	11.3	3
10	Freeze Drying Method with Gaseous Nitrogen to Preserve Fine Ultrastructure of Biological Organizations for Scanning Electron Microscopy, Helium Ion Beam Microscopy and Fluorescence Microscopy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1142-1143	0.5	3
9	Facile discovery of surrogate cytokine agonists.. <i>Cell</i> , 2022 ,	56.2	3
8	Infectious Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Virus in Symptomatic Coronavirus Disease 2019 (COVID-19) Outpatients: Host, Disease, and Viral Correlates.. <i>Clinical Infectious Diseases</i> , 2021 ,	11.6	2
7	Hypergraph models of biological networks to identify genes critical to pathogenic viral response. <i>BMC Bioinformatics</i> , 2021 , 22, 287	3.6	2
6	Distinct genetic determinants and mechanisms of SARS-CoV-2 resistance to remdesivir		1
5	Infectious SARS-CoV-2 Virus in Symptomatic COVID-19 Outpatients: Host, Disease, and Viral Correlates 2021 ,		1
4	Unfolded Protein Response Inhibition Reduces Middle East Respiratory Syndrome Coronavirus-Induced Acute Lung Injury. <i>MBio</i> , 2021 , 12, e0157221	7.8	1
3	Achieving global equity for COVID-19 vaccines: Stronger international partnerships and greater advocacy and solidarity are needed. <i>PLoS Medicine</i> , 2021 , 18, e1003772	11.6	1
2	SARS Coronavirus Pathogenesis and Therapeutic Treatment Design 2010 , 195-230		0
1	Primer ID Next-Generation Sequencing for the Analysis of a Broad Spectrum Antiviral Induced Transition Mutations and Errors Rates in a Coronavirus Genome. <i>Bio-protocol</i> , 2021 , 11, e3938	0.9	0