Benjamin R Tenoever

List of Publications by Year
in descending order

100 papers	15,759 citations	41323 49 h-index	34964 98 g-index
130 all docs	130 docs citations	130 times ranked	24515 citing authors

#	Article	IF	Citations
1	Imbalanced Host Response to SARS-CoV-2 Drives Development of COVID-19. Cell, 2020, 181, 1036-1045.e9.	13.5	3,572
2	Triggering the Interferon Antiviral Response Through an IKK-Related Pathway. Science, 2003, 300, 1148-1151.	6.0	1,518
3	The Global Phosphorylation Landscape of SARS-CoV-2 Infection. Cell, 2020, 182, 685-712.e19.	13.5	825
4	VSV strains with defects in their ability to shutdown innate immunity are potent systemic anti-cancer agents. Cancer Cell, 2003, 4, 263-275.	7.7	734
5	A Human Pluripotent Stem Cell-based Platform to Study SARS-CoV-2 Tropism and Model Virus Infection in Human Cells and Organoids. Cell Stem Cell, 2020, 27, 125-136.e7.	5.2	543
6	Identification of Required Host Factors for SARS-CoV-2 Infection in Human Cells. Cell, 2021, 184, 92-105.e16.	13.5	480
7	Transcriptional Profiling of Interferon Regulatory Factor 3 Target Genes: Direct Involvement in the Regulation of Interferon-Stimulated Genes. Journal of Virology, 2002, 76, 5532-5539.	1.5	467
8	Identification of SARS-CoV-2 inhibitors using lung and colonic organoids. Nature, 2021, 589, 270-275.	13.7	389
9	Multiple Functions of the IKK-Related Kinase IKKÂ in Interferon-Mediated Antiviral Immunity. Science, 2007, 315, 1274-1278.	6.0	309
10	DAI Senses Influenza A Virus Genomic RNA and Activates RIPK3-Dependent Cell Death. Cell Host and Microbe, 2016, 20, 674-681.	5.1	292
11	A human-airway-on-a-chip for the rapid identification of candidate antiviral therapeutics and prophylactics. Nature Biomedical Engineering, 2021, 5, 815-829.	11.6	228
12	Influenza A Virus Transmission Bottlenecks Are Defined by Infection Route and Recipient Host. Cell Host and Microbe, 2014, 16, 691-700.	5.1	215
13	Identification of the Minimal Phosphoacceptor Site Required for in Vivo Activation of Interferon Regulatory Factor 3 in Response to Virus and Double-stranded RNA. Journal of Biological Chemistry, 2003, 278, 9441-9447.	1.6	201
14	Influenza A virus-generated small RNAs regulate the switch from transcription to replication. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11525-11530.	3.3	186
15	Genome-wide CRISPR/Cas9 Screen Identifies Host Factors Essential for Influenza Virus Replication. Cell Reports, 2018, 23, 596-607.	2.9	185
16	The Spike D614G mutation increases SARS-CoV-2 infection of multiple human cell types. ELife, 2021, 10, .	2.8	173
17	Activation of TBK1 and IKKÎµ Kinases by Vesicular Stomatitis Virus Infection and the Role of Viral Ribonucleoprotein in the Development of Interferon Antiviral Immunity. Journal of Virology, 2004, 78, 10636-10649.	1.5	164
18	Recognition of the Measles Virus Nucleocapsid as a Mechanism of IRF-3 Activation. Journal of Virology, 2002, 76, 3659-3669.	1.5	162

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19	Non-cell-autonomous disruption of nuclear architecture as a potential cause of COVID-19-induced anosmia. Cell, 2022, 185, 1052-1064.e12.	13.5	154
20	Leveraging the antiviral type I interferon system as a first line of defense against SARS-CoV-2 pathogenicity. Immunity, 2021, 54, 557-570.e5.	6.6	153
21	MicroRNA-mediated species-specific attenuation of influenza A virus. Nature Biotechnology, 2009, 27, 572-576.	9.4	135
22	Unanchored K48-Linked Polyubiquitin Synthesized by the E3-Ubiquitin Ligase TRIM6 Stimulates the Interferon-IKKÎµ Kinase-Mediated Antiviral Response. Immunity, 2014, 40, 880-895.	6.6	135
23	The Evolution of Antiviral Defense Systems. Cell Host and Microbe, 2016, 19, 142-149.	5.1	129
24	SARS-CoV-2 infection in hamsters and humans results in lasting and unique systemic perturbations after recovery. Science Translational Medicine, 2022, 14, .	5.8	129
25	Hyperglycemia in acute COVID-19 is characterized by insulin resistance and adipose tissue infectivity by SARS-CoV-2. Cell Metabolism, 2021, 33, 2174-2188.e5.	7.2	127
26	The Interferon Signaling Antagonist Function of Yellow Fever Virus NS5 Protein Is Activated by Type I Interferon. Cell Host and Microbe, 2014, 16, 314-327.	5.1	126
27	SARS-CoV-2 infection induces beta cell transdifferentiation. Cell Metabolism, 2021, 33, 1577-1591.e7.	7.2	123
28	RNA viruses and the host microRNA machinery. Nature Reviews Microbiology, 2013, 11, 169-180.	13.6	121
29	Is RNA Interference a Physiologically Relevant Innate Antiviral Immune Response in Mammals?. Cell Host and Microbe, 2013, 14, 374-378.	5.1	108
30	IÎºB kinase Îµ (IKKÎµ) regulates the balance between type I and type II interferon responses. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 21170-21175.	3.3	105
31	Stem-Loop Recognition by DDX17 Facilitates miRNA Processing and Antiviral Defense. Cell, 2014, 158, 764-777.	13.5	103
32	Transcription Factor Redundancy Ensures Induction of the Antiviral State. Journal of Biological Chemistry, 2010, 285, 42013-42022.	1.6	102
33	Noncanonical cytoplasmic processing of viral microRNAs. Rna, 2010, 16, 2068-2074.	1.6	99
34	Convergence of the NF-Î°B and Interferon Signaling Pathways in the Regulation of Antiviral Defense and Apoptosis. Annals of the New York Academy of Sciences, 2003, 1010, 237-248.	1.8	97
35	Connecting Mitochondria and Innate Immunity. Cell, 2005, 122, 645-647.	13.5	96
36	Broadly protective murine monoclonal antibodies against influenza B virus target highly conserved neuraminidase epitopes. Nature Microbiology, 2017, 2, 1415-1424.	5.9	96

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37	Degradation of Host MicroRNAs by Poxvirus Poly(A) Polymerase Reveals Terminal RNA Methylation as a Protective Antiviral Mechanism. Cell Host and Microbe, 2012, 12, 200-210.	5.1	94
38	Engineered RNA viral synthesis of microRNAs. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11519-11524.	3.3	86
39	Replication in Cells of Hematopoietic Origin Is Necessary for Dengue Virus Dissemination. PLoS Pathogens, 2012, 8, e1002465.	2.1	86
40	Evidence for a cytoplasmic microprocessor of pri-miRNAs. Rna, 2012, 18, 1338-1346.	1.6	84
41	Review: Overlapping and Distinct Mechanisms Regulating IRF-3 and IRF-7 Function. Journal of Interferon and Cytokine Research, 2002, 22, 49-58.	0.5	80
42	TOP1 inhibition therapy protects against SARS-CoV-2-induced lethal inflammation. Cell, 2021, 184, 2618-2632.e17.	13.5	80
43	Influenza A Virus Utilizes Suboptimal Splicing to Coordinate the Timing of Infection. Cell Reports, 2013, 3, 23-29.	2.9	78
44	MicroRNA-based strategy to mitigate the risk of gain-of-function influenza studies. Nature Biotechnology, 2013, 31, 844-847.	9.4	77
45	InÂVivo RNAi Screening Identifies MDA5 as a Significant Contributor to the Cellular Defense against Influenza A Virus. Cell Reports, 2015, 11, 1714-1726.	2.9	75
46	Long-term survival of influenza virus infected club cells drives immunopathology. Journal of Experimental Medicine, 2014, 211, 1707-1714.	4.2	74
47	The NF-Î°B Transcriptional Footprint Is Essential for SARS-CoV-2 Replication. Journal of Virology, 2021, 95, e0125721.	1.5	69
48	The Mammalian Response to Virus Infection Is Independent of Small RNA Silencing. Cell Reports, 2014, 8, 114-125.	2.9	67
49	Hematopoietic-specific targeting of influenza A virus reveals replication requirements for induction of antiviral immune responses. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12117-12122.	3.3	66
50	Drosha as an interferon-independent antiviral factor. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7108-7113.	3.3	64
51	Inflammatory responses in the placenta upon SARS-CoV-2 infection late in pregnancy. IScience, 2022, 25, 104223.	1.9	58
52	RNase III nucleases from diverse kingdoms serve as antiviral effectors. Nature, 2017, 547, 114-117.	13.7	57
53	Efficient and Robust <i>Paramyxoviridae</i> Reverse Genetics Systems. MSphere, 2017, 2, .	1.3	55
54	Disulfiram inhibits neutrophil extracellular trap formation and protects rodents from acute lung injury and SARS-CoV-2 infection. JCI Insight, 2022, 7, .	2.3	54

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55	A Small-RNA Enhancer of Viral Polymerase Activity. Journal of Virology, 2012, 86, 13475-13485.	1.5	53
56	Limited intestinal inflammation despite diarrhea, fecal viral RNA and SARS-CoV-2-specific IgA in patients with acute COVID-19. Scientific Reports, 2021, 11, 13308.	1.6	50
57	SARS-CoV-2 Infection Induces Ferroptosis of Sinoatrial Node Pacemaker Cells. Circulation Research, 2022, 130, 963-977.	2.0	49
58	BRD2 inhibition blocks SARS-CoV-2 infection by reducing transcription of the host cell receptor ACE2. Nature Cell Biology, 2022, 24, 24-34.	4.6	47
59	Antiviral Response Dictated by Choreographed Cascade of Transcription Factors. Journal of Immunology, 2010, 184, 2908-2917.	0.4	46
60	In Vivo Delivery of Cytoplasmic RNA Virus-derived miRNAs. Molecular Therapy, 2012, 20, 367-375.	3.7	45
61	Type I interferon response impairs differentiation potential of pluripotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1384-1393.	3.3	44
62	SARS-CoV-2 infects human adult donor eyes and hESC-derived ocular epithelium. Cell Stem Cell, 2021, 28, 1205-1220.e7.	5.2	44
63	Effects of the Hepatitis C Virus Core Protein on Innate Cellular Defense Pathways. Journal of Interferon and Cytokine Research, 2004, 24, 391-402.	0.5	41
64	An Immuno-Cardiac Model for Macrophage-Mediated Inflammation in COVID-19 Hearts. Circulation Research, 2021, 129, 33-46.	2.0	40
65	Integrative approach identifies SLC6A20 and CXCR6 as putative causal genes for the COVID-19 GWAS signal in the 3p21.31 locus. Genome Biology, 2021, 22, 242.	3.8	40
66	An InÂVivo RNAi Screening Approach to Identify Host Determinants of Virus Replication. Cell Host and Microbe, 2013, 14, 346-356.	5.1	39
67	Common Genetic Variation in Humans Impacts InÂVitro Susceptibility to SARS-CoV-2 Infection. Stem Cell Reports, 2021, 16, 505-518.	2.3	39
68	Cardiomyocytes recruit monocytes upon SARS-CoV-2 infection by secretingÂCCL2. Stem Cell Reports, 2021, 16, 2274-2288.	2.3	37
69	Immune memory from SARS-CoV-2 infection in hamsters provides variant-independent protection but still allows virus transmission. Science Immunology, 2021, 6, eabm3131.	5.6	37
70	Regulation of arginase II by interferon regulatory factor 3 and the involvement of polyamines in the antiviral response. FEBS Journal, 2005, 272, 3120-3131.	2.2	34
71	Coagulation factors directly cleave SARS-CoV-2 spike and enhance viral entry. ELife, 2022, 11, .	2.8	34
72	microRNA Function Is Limited to Cytokine Control in the Acute Response to Virus Infection. Cell Host and Microbe, 2015, 18, 714-722.	5.1	33

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73	Novel Cross-Reactive Monoclonal Antibodies against Ebolavirus Glycoproteins Show Protection in a Murine Challenge Model. Journal of Virology, 2017, 91, .	1.5	33
74	Engineered Mammalian RNAi Can Elicit Antiviral Protection that Negates the Requirement for the Interferon Response. Cell Reports, 2015, 13, 1456-1466.	2.9	32
75	Questioning antiviral RNAi in mammals. Nature Microbiology, 2017, 2, 17052.	5.9	32
76	miRNA-mediated targeting of human cytomegalovirus reveals biological host and viral targets of IE2. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1069-1074.	3.3	31
77	SARS-CoV-2 Infection of Ocular Cells from Human Adult Donor Eyes and hESC-Derived Eye Organoids. SSRN Electronic Journal, 2020, , 3650574.	0.4	31
78	Reduced Nucleoprotein Availability Impairs Negative-Sense RNA Virus Replication and Promotes Host Recognition. Journal of Virology, 2021, 95, .	1.5	26
79	Implications of RNA virus-produced miRNAs. RNA Biology, 2011, 8, 190-194.	1.5	23
80	Mitogen-activated Protein Kinase-mediated Licensing of Interferon Regulatory Factor 3/7 Reinforces the Cell Response to Virus. Journal of Biological Chemistry, 2014, 289, 299-311.	1.6	23
81	Ancient viral genomes reveal introduction of human pathogenic viruses into Mexico during the transatlantic slave trade. ELife, 2021, 10, .	2.8	23
82	The Host Response to Influenza A Virus Interferes with SARS-CoV-2 Replication during Coinfection. Journal of Virology, 2022, 96, .	1.5	23
83	The IKK Kinases: Operators of Antiviral Signaling. Viruses, 2010, 2, 55-72.	1.5	22
84	A diminished immune response underlies age-related SARS-CoV-2 pathologies. Cell Reports, 2022, 39, 111002.	2.9	20
85	Homologous recombination is an intrinsic defense against antiviral RNA interference. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9211-E9219.	3.3	17
86	RNA virus building blocksâ€"miRNAs not included. PLoS Pathogens, 2018, 14, e1006963.	2.1	16
87	Virally programmed extracellular vesicles sensitize cancer cells to oncolytic virus and small molecule therapy. Nature Communications, 2022, 13, 1898.	5.8	16
88	The Host Factor ANP32A Is Required for Influenza A Virus vRNA and cRNA Synthesis. Journal of Virology, 2022, 96, jvi0209221.	1.5	15
89	A Versatile RNA Vector for Delivery of Coding and Noncoding RNAs. Journal of Virology, 2014, 88, 2333-2336.	1.5	14
90	Rapid Dissemination and Monopolization of Viral Populations in Mice Revealed Using a Panel of Barcoded Viruses. Journal of Virology, 2020, 94, .	1.5	14

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91	RNase III Nucleases and the Evolution of Antiviral Systems. BioEssays, 2018, 40, 1700173.	1.2	13
92	Viral Fitness Landscapes in Diverse Host Species Reveal Multiple Evolutionary Lines for the NS1 Gene of Influenza A Viruses. Cell Reports, 2019, 29, 3997-4009.e5.	2.9	13
93	Parallel Pathways of Virus Recognition. Immunity, 2006, 24, 510-512.	6.6	12
94	SARS-CoV-2 Ion Channel ORF3a Enables TMEM16F-Dependent Phosphatidylserine Externalization to Augment Procoagulant Activity of the Tenase and Prothrombinase Complexes. Blood, 2021, 138, 1-1.	0.6	11
95	Cardiometabolic syndrome â€" an emergent feature of Long COVID?. Nature Reviews Immunology, 0, , .	10.6	10
96	MicroManipulating viral-based therapeutics. Discovery Medicine, 2009, 8, 51-4.	0.5	5
97	Response to Voinnet etÂal.. Cell Reports, 2014, 9, 798-799.	2.9	4
98	Protocols for SARS-CoV-2 infection in primary ocular cells and eye organoids. STAR Protocols, 2022, 3, 101383.	0.5	3
99	Synthetic Virology: Building Viruses to Better Understand Them. Cold Spring Harbor Perspectives in Medicine, 2020, 10, a038703.	2.9	2
100	Pernio and Early SARSâ€CoVâ€2 Variants: Natural History of a Prospective Cohort and the Role of Interferon. British Journal of Dermatology, 0, , .	1.4	0