

# Gregory Towers

## List of Publications by Citations

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103  
papers

6,031  
citations

43  
h-index

76  
g-index

111  
ext. papers

7,046  
ext. citations

9.1  
avg, IF

5.68  
L-index

#	Paper	IF	Citations
103	HIV-1 capsid-cyclophilin interactions determine nuclear import pathway, integration targeting and replication efficiency. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002439	7.6	331
102	Antibodies mediate intracellular immunity through tripartite motif-containing 21 (TRIM21). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 19985-90	11.5	318
101	HIV-1 evades innate immune recognition through specific cofactor recruitment. <i>Nature</i> , <b>2013</b> , 503, 402-404	50.4	317
100	Cyclophilin A modulates the sensitivity of HIV-1 to host restriction factors. <i>Nature Medicine</i> , <b>2003</b> , 9, 1138-43	9.9	313
99	The human and African green monkey TRIM5alpha genes encode Ref1 and Lv1 retroviral restriction factor activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 10780-5	11.5	292
98	Restriction of multiple divergent retroviruses by Lv1 and Ref1. <i>EMBO Journal</i> , <b>2003</b> , 22, 385-94	13	194
97	CPSF6 defines a conserved capsid interface that modulates HIV-1 replication. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002896	7.6	180
96	HIV integration targeting: a pathway involving Transportin-3 and the nuclear pore protein RanBP2. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1001313	7.6	170
95	Independent evolution of an antiviral TRIMCyp in rhesus macaques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 3557-62	11.5	169
94	The control of viral infection by tripartite motif proteins and cyclophilin A. <i>Retrovirology</i> , <b>2007</b> , 4, 40	3.6	166
93	Mutation of a single residue renders human tetherin resistant to HIV-1 Vpu-mediated depletion. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000443	7.6	156
92	Simian immunodeficiency virus envelope glycoprotein counteracts tetherin/BST-2/CD317 by intracellular sequestration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 20889-94	11.5	140
91	TRIM22 inhibits influenza A virus infection by targeting the viral nucleoprotein for degradation. <i>Journal of Virology</i> , <b>2013</b> , 87, 4523-33	6.6	138
90	Disease-associated XMRV sequences are consistent with laboratory contamination. <i>Retrovirology</i> , <b>2010</b> , 7, 111	3.6	128
89	Differential restriction of human immunodeficiency virus type 2 and simian immunodeficiency virus SIVmac by TRIM5alpha alleles. <i>Journal of Virology</i> , <b>2005</b> , 79, 11580-7	6.6	128
88	HIV-1 uses dynamic capsid pores to import nucleotides and fuel encapsidated DNA synthesis. <i>Nature</i> , <b>2016</b> , 536, 349-53	50.4	127
87	SAMHD1-dependent retroviral control and escape in mice. <i>EMBO Journal</i> , <b>2013</b> , 32, 2454-62	13	116

86	The RING-CH ligase K5 antagonizes restriction of KSHV and HIV-1 particle release by mediating ubiquitin-dependent endosomal degradation of tetherin. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1000843	7.6	113
85	Cyclophilin A renders human immunodeficiency virus type 1 sensitive to Old World monkey but not human TRIM5 alpha antiviral activity. <i>Journal of Virology</i> , <b>2006</b> , 80, 4683-90	6.6	98
84	Influence of gag on human immunodeficiency virus type 1 species-specific tropism. <i>Journal of Virology</i> , <b>2004</b> , 78, 11816-22	6.6	80
83	HIV-1 capsid undergoes coupled binding and isomerization by the nuclear pore protein NUP358. <i>Retrovirology</i> , <b>2013</b> , 10, 81	3.6	76
82	Active site remodeling switches HIV specificity of antiretroviral TRIMCyp. <i>Nature Structural and Molecular Biology</i> , <b>2009</b> , 16, 1036-42	17.6	76
81	Restriction of retroviral replication by APOBEC3G/F and TRIM5alpha. <i>Trends in Microbiology</i> , <b>2008</b> , 16, 612-9	12.4	75
80	A model for cofactor use during HIV-1 reverse transcription and nuclear entry. <i>Current Opinion in Virology</i> , <b>2014</b> , 4, 32-6	7.5	73
79	HIV-1 infection of macrophages is dependent on evasion of innate immune cellular activation. <i>Aids</i> , <b>2009</b> , 23, 2255-63	3.5	70
78	As(2)O(3) enhances retroviral reverse transcription and counteracts Ref1 antiviral activity. <i>Journal of Virology</i> , <b>2003</b> , 77, 3167-80	6.6	69
77	Gag determinants of fitness and drug susceptibility in protease inhibitor-resistant human immunodeficiency virus type 1. <i>Journal of Virology</i> , <b>2009</b> , 83, 9094-101	6.6	67
76	TRIM5 $\alpha$ requires Ube2W to anchor Lys63-linked ubiquitin chains and restrict reverse transcription. <i>EMBO Journal</i> , <b>2015</b> , 34, 2078-95	13	62
75	An active TRIM5 protein in rabbits indicates a common antiviral ancestor for mammalian TRIM5 proteins. <i>Journal of Virology</i> , <b>2007</b> , 81, 11713-21	6.6	62
74	Full-length HIV-1 Gag determines protease inhibitor susceptibility within in vitro assays. <i>Aids</i> , <b>2010</b> , 24, 1651-5	3.5	61
73	Evolution of enhanced innate immune evasion by the SARS-CoV-2 B.1.1.7 UK variant <b>2021</b> ,		60
72	Rhesus macaque TRIM5 alleles have divergent antiretroviral specificities. <i>Journal of Virology</i> , <b>2008</b> , 82, 7243-7	6.6	59
71	A G1-like state allows HIV-1 to bypass SAMHD1 restriction in macrophages. <i>EMBO Journal</i> , <b>2017</b> , 36, 6041-616	15.16	56
70	HIV-1 Group P is unable to antagonize human tetherin by Vpu, Env or Nef. <i>Retrovirology</i> , <b>2011</b> , 8, 103	3.6	56
69	Characterization of murine leukemia virus restriction in mammals. <i>Journal of Virology</i> , <b>2003</b> , 77, 13403-66.6	66.6	56

68	Cyclophilin A levels dictate infection efficiency of human immunodeficiency virus type 1 capsid escape mutants A92E and G94D. <i>Journal of Virology</i> , <b>2009</b> , 83, 2044-7	6.6	54
67	Isolation of an active Lv1 gene from cattle indicates that tripartite motif protein-mediated innate immunity to retroviral infection is widespread among mammals. <i>Journal of Virology</i> , <b>2006</b> , 80, 7332-8	6.6	54
66	Cyclosporine H Overcomes Innate Immune Restrictions to Improve Lentiviral Transduction and Gene Editing In Human Hematopoietic Stem Cells. <i>Cell Stem Cell</i> , <b>2018</b> , 23, 820-832.e9	18	53
65	Selective Inhibition of the Mitochondrial Permeability Transition Pore Protects against Neurodegeneration in Experimental Multiple Sclerosis. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 4356-734	5.4	48
64	Trivalent RING Assembly on Retroviral Capsids Activates TRIM5 Ubiquitination and Innate Immune Signaling. <i>Cell Host and Microbe</i> , <b>2018</b> , 24, 761-775.e6	23.4	48
63	Truncation of TRIM5 in the Feliformia explains the absence of retroviral restriction in cells of the domestic cat. <i>Journal of Virology</i> , <b>2009</b> , 83, 8270-5	6.6	46
62	Feline tetherin efficiently restricts release of feline immunodeficiency virus but not spreading of infection. <i>Journal of Virology</i> , <b>2011</b> , 85, 5840-52	6.6	45
61	Tetherin restricts herpes simplex virus 1 and is antagonized by glycoprotein M. <i>Journal of Virology</i> , <b>2013</b> , 87, 13124-33	6.6	43
60	Interactions between HIV-1 and the cell-autonomous innate immune system. <i>Cell Host and Microbe</i> , <b>2014</b> , 16, 10-8	23.4	42
59	Conformational adaptation of Asian macaque TRIMCyp directs lineage specific antiviral activity. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1001062	7.6	41
58	One step screening of retroviral producer clones by real time quantitative PCR. <i>Journal of Gene Medicine</i> , <b>1999</b> , 1, 352-9	3.5	41
57	SARS-CoV-2 sensing by RIG-I and MDA5 links epithelial infection to macrophage inflammation. <i>EMBO Journal</i> , <b>2021</b> , 40, e107826	13	41
56	Adherent human alveolar macrophages exhibit a transient pro-inflammatory profile that confounds responses to innate immune stimulation. <i>PLoS ONE</i> , <b>2012</b> , 7, e40348	3.7	39
55	Virulent Poxviruses Inhibit DNA Sensing by Preventing STING Activation. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	38
54	Retroviral restriction factors Fv1 and TRIM5alpha act independently and can compete for incoming virus before reverse transcription. <i>Journal of Virology</i> , <b>2006</b> , 80, 2100-5	6.6	37
53	No evidence of XMRV in prostate cancer cohorts in the Midwestern United States. <i>Retrovirology</i> , <b>2011</b> , 8, 23	3.6	36
52	Cyclosporine increases human immunodeficiency virus type 1 vector transduction of primary mouse cells. <i>Journal of Virology</i> , <b>2006</b> , 80, 7769-74	6.6	33
51	Early antigen presentation of protective HIV-1 KF11Gag and KK10Gag epitopes from incoming viral particles facilitates rapid recognition of infected cells by specific CD8+ T cells. <i>Journal of Virology</i> , <b>2013</b> , 87, 2628-38	6.6	31

50	Control of viral infectivity by tripartite motif proteins. <i>Human Gene Therapy</i> , <b>2005</b> , 16, 1125-32	4.8	31
49	DNA damage induced by topoisomerase inhibitors activates SAMHD1 and blocks HIV-1 infection of macrophages. <i>EMBO Journal</i> , <b>2018</b> , 37, 50-62	13	31
48	Evolution of enhanced innate immune evasion by SARS-CoV-2.. <i>Nature</i> , <b>2021</b> ,	50.4	30
47	Endoplasmic reticulum degradation-enhancing $\beta$ -mannosidase-like protein 1 targets misfolded HLA-B27 dimers for endoplasmic reticulum-associated degradation. <i>Arthritis and Rheumatology</i> , <b>2014</b> , 66, 2976-88	9.5	25
46	Gene therapy strategies to exploit TRIM derived restriction factors against HIV-1. <i>Viruses</i> , <b>2014</b> , 6, 243-63.	6.2	25
45	Disrupting HIV-1 capsid formation causes cGAS sensing of viral DNA. <i>EMBO Journal</i> , <b>2020</b> , 39, e103958	13	25
44	Inhibition of retroviral replication by members of the TRIM protein family. <i>Current Topics in Microbiology and Immunology</i> , <b>2013</b> , 371, 29-66	3.3	24
43	Fusion of cyclophilin A to Fv1 enables cyclosporine-sensitive restriction of human and feline immunodeficiency viruses. <i>Journal of Virology</i> , <b>2007</b> , 81, 10055-63	6.6	24
42	Hare TRIM5 $\beta$ restricts divergent retroviruses and exhibits significant sequence variation from closely related lagomorpha TRIM5 genes. <i>Journal of Virology</i> , <b>2010</b> , 84, 12463-8	6.6	23
41	Are Evolution and the Intracellular Innate Immune System Key Determinants in HIV Transmission?. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1246	8.4	22
40	No evidence of XMRV or related retroviruses in a London HIV-1-positive patient cohort. <i>PLoS ONE</i> , <b>2011</b> , 6, e18096	3.7	22
39	Diverse HIV viruses are targeted by a conformationally dynamic antiviral. <i>Nature Structural and Molecular Biology</i> , <b>2012</b> , 19, 411-6	17.6	21
38	Cellular restriction of retrovirus particle-mediated mRNA transfer. <i>Journal of Virology</i> , <b>2008</b> , 82, 3069-77.	6	21
37	Identification of an arsenic-sensitive block to primate lentiviral infection of human dendritic cells. <i>Journal of Virology</i> , <b>2007</b> , 81, 12086-90	6.6	20
36	Impact of the N348I mutation in HIV-1 reverse transcriptase on nonnucleoside reverse transcriptase inhibitor resistance in non-subtype B HIV-1. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2011</b> , 55, 1806-9	5.9	19
35	Porcine endogenous retroviruses PERV A and A/C recombinant are insensitive to a range of divergent mammalian TRIM5 $\alpha$ proteins including human TRIM5 $\alpha$ . <i>Journal of General Virology</i> , <b>2009</b> , 90, 702-709	4.9	18
34	A tail of Tetherin: how pandemic HIV-1 conquered the world. <i>Cell Host and Microbe</i> , <b>2009</b> , 6, 393-5	23.4	17
33	Lentiviral gene therapy against human immunodeficiency virus type 1, using a novel human TRIM21-cyclophilin A restriction factor. <i>Human Gene Therapy</i> , <b>2012</b> , 23, 1176-85	4.8	17

32	Post-entry restriction of retroviral infections. <i>AIDS Reviews</i> , <b>2003</b> , 5, 156-64	1.5	17
31	Phylogenetic analysis of murine leukemia virus sequences from longitudinally sampled chronic fatigue syndrome patients suggests PCR contamination rather than viral evolution. <i>Journal of Virology</i> , <b>2011</b> , 85, 10909-13	6.6	15
30	Analysis of the human immunodeficiency virus type 1 M group Vpu domains involved in antagonizing tetherin. <i>Journal of General Virology</i> , <b>2011</b> , 92, 2937-2948	4.9	15
29	Infection Counter: Automated Quantification of in Vitro Virus Replication by Fluorescence Microscopy. <i>Viruses</i> , <b>2016</b> , 8,	6.2	12
28	HIV-1 Vpr antagonizes innate immune activation by targeting karyopherin-mediated NF- $\kappa$ B/IRF3 nuclear transport. <i>ELife</i> , <b>2020</b> , 9,	8.9	11
27	Diversity of TRIM5 $\alpha$ and TRIMCyp sequences in cynomolgus macaques from different geographical origins. <i>Immunogenetics</i> , <b>2012</b> , 64, 267-78	3.2	10
26	Lentiviral Vector Production Titer Is Not Limited in HEK293T by Induced Intracellular Innate Immunity. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2020</b> , 17, 209-219	6.4	10
25	Nonhuman TRIM5 Variants Enhance Recognition of HIV-1-Infected Cells by CD8+ T Cells. <i>Journal of Virology</i> , <b>2016</b> , 90, 8552-62	6.6	9
24	Vpx complementation of non-macrophage tropic HIV-1 cores into macrophages. <i>Retrovirology</i> , <b>2014</b> , 11, 25	3.6	9
23	Upregulation of TRIM5 $\alpha$ gene expression after live-attenuated simian immunodeficiency virus vaccination in Mauritian cynomolgus macaques, but TRIM5 $\alpha$ genotype has no impact on virus acquisition or vaccination outcome. <i>Journal of General Virology</i> , <b>2013</b> , 94, 606-611	4.9	9
22	HLA-specific intracellular epitope processing shapes an immunodominance pattern for HLA-B*57 that is distinct from HLA-B*58:01. <i>Journal of Virology</i> , <b>2013</b> , 87, 10889-94	6.6	8
21	Early biodistribution and persistence of a protective live attenuated SIV vaccine elicits localised innate responses in multiple lymphoid tissues. <i>PLoS ONE</i> , <b>2014</b> , 9, e104390	3.7	8
20	Hepatitis C virus exploits cyclophilin A to evade PKR. <i>ELife</i> , <b>2020</b> , 9,	8.9	8
19	Preclinical and randomized phase I studies of plitidepsin in adults hospitalized with COVID-19. <i>Life Science Alliance</i> , <b>2022</b> , 5,	5.8	6
18	STING nuclear partners contribute to innate immune signaling responses. <i>iScience</i> , <b>2021</b> , 24, 103055	6.1	6
17	MxB sensitivity of HIV-1 is determined by a highly variable and dynamic capsid surface. <i>ELife</i> , <b>2020</b> , 9,	8.9	5
16	SARS-CoV-2 sensing by RIG-I and MDA5 links epithelial infection to macrophage inflammation		5
15	Emergence of a Novel Protease Inhibitor Resistance Signature in HIV-1 Matrix. <i>MBio</i> , <b>2020</b> , 11,	7.8	4

14	Disrupting HIV-1 capsid formation causes cGAS sensing of viral DNA		4
13	Preventing the N-terminal processing of human interferon $\beta$ and its chimeric derivatives expressed in <i>Escherichia coli</i> . <i>Bioorganic Chemistry</i> , <b>2018</b> , 76, 294-302	5.1	4
12	Kinetics of Early Innate Immune Activation during HIV-1 Infection of Humanized Mice. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	3
11	ChromaClade: combined visualisation of phylogenetic and sequence data. <i>BMC Evolutionary Biology</i> , <b>2019</b> , 19, 186	3	3
10	Restriction of retroviruses by TRIM5 $\alpha$ . <i>Future Virology</i> , <b>2006</b> , 1, 71-78	2.4	3
9	Identifying a nuclear passport for HIV. <i>ELife</i> , <b>2019</b> , 8,	8.9	2
8	In Vivo Emergence of a Novel Protease Inhibitor Resistance Signature in HIV-1 Matrix		2
7	Induction of transposable element expression is central to innate sensing		2
6	Variable Baseline Endogenous Retrovirus (PcEV) Expression Is Upregulated in Acutely SIV-Infected Macaques and Correlated to STAT1 Expression in the Spleen. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 901	8.4	1
5	HIV-1 Vpr antagonizes innate immune activation by targeting karyopherin-mediated NF- $\kappa$ B/IRF3 nuclear transport		1
4	SARS-CoV-2 Spike evolution influences GBP and IFITM sensitivity		1
3	HIV-2/SIV Vpx antagonises NF- $\kappa$ B activation by targeting p65.. <i>Retrovirology</i> , <b>2022</b> , 19, 2	3.6	0
2	Ultra structural characterisation of tetherin - a protein capable of preventing viral release from the plasma membrane. <i>Viruses</i> , <b>2010</b> , 2, 987-94	6.2	
1	Control of Viral Infectivity by Tripartite Motif Proteins. <i>Human Gene Therapy</i> , <b>2005</b> , 050830061634001	4.8	