Effects of human TRIM5Î± polymorphisms on antiretro human immunodeficiency virus infection

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Citation Report

#	Article	IF	Citations
1	Removal of Arginine 332 Allows Human TRIM5Î± To Bind Human Immunodeficiency Virus Capsids and To Restrict Infection. Journal of Virology, 2006, 80, 6738-6744.	1.5	129
2	Balancing selection and the evolution of functional polymorphism in Old World monkey TRIM5Â. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19134-19139.	3.3	149
3	Regulatory Polymorphisms in the Cyclophilin A Gene, PPIA, Accelerate Progression to AIDS. PLoS Pathogens, 2007, 3, e88.	2.1	58
4	Identification of an Arsenic-Sensitive Block to Primate Lentiviral Infection of Human Dendritic Cells. Journal of Virology, 2007, 81, 12086-12090.	1.5	21
5	The presence of the Trim5Î± escape mutation H87Q in the capsid of late stage HIV-1 variants is preceded by a prolonged asymptomatic infection phase. Aids, 2007, 21, 2015-2023.	1.0	27
6	Host genetic variation and susceptibility to primate lentiviruses. Future HIV Therapy, 2007, 1, 399-413.	0.5	2
7	Restriction of an Extinct Retrovirus by the Human TRIM5Â Antiviral Protein. Science, 2007, 316, 1756-1758.	6.0	125
8	The control of viral infection by tripartite motif proteins and cyclophilin A. Retrovirology, 2007, 4, 40.	0.9	188
9	Host factors influencing susceptibility to HIV infection and AIDS progression. Retrovirology, 2007, 4, 52.	0.9	106
10	Wild type and H43Y variant of human TRIM5Î± show similar anti-human immunodeficiency virus type 1 activity both in vivo and in vitro. Immunogenetics, 2007, 59, 511-515.	1.2	25
11	The retroviral restriction factor TRIM5Î±. Current Infectious Disease Reports, 2007, 9, 167-173.	1.3	12
12	Interpreting missense mutations in Human TRIM5alpha by computational methods. BMC Research Notes, 2008, 1, 116.	0.6	1
13	Evaluation of IL10, IL19 and IL20 gene polymorphisms and chronic hepatitis B infection outcome. International Journal of Immunogenetics, 2008, 35, 255-264.	0.8	41
14	Detecting AIDS restriction genes: From candidate genes to genome-wide association discovery. Vaccine, 2008, 26, 2951-2965.	1.7	16
15	HIV-2: the forgotten AIDS virus. Trends in Microbiology, 2008, 16, 588-595.	3.5	165
16	Identifying Host Targets for Drug Development with Knowledge from Genome-wide Studies: Lessons from HIV-AIDS. Cell Host and Microbe, 2008, 3, 203-205.	5.1	8
17	Host Genetic Influences on Highly Active Antiretroviral Therapy Efficacy and AIDS-Free Survival. Journal of Acquired Immune Deficiency Syndromes (1999), 2008, 48, 263-271.	0.9	42
18	The Effect of Trim5 Polymorphisms on the Clinical Course of HIV-1 Infection. PLoS Pathogens, 2008, 4, e18.	2.1	111

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19	Antiretroviral Activity of Ancestral TRIM5Î±. Journal of Virology, 2008, 82, 2089-2096.	1.5	27
21	Function and polymorphisms of anti-HIV host factors: evidence from exposed uninfected individuals. Future HIV Therapy, 2008, 2, 167-173.	0.5	0
22	Host genetics influences on HIV type-1 disease. Antiviral Therapy, 2009, 14, 731-738.	0.6	24
23	Human TRIM5Î± Expression Levels and Reduced Susceptibility to HIVâ€1 Infection. Journal of Infectious Diseases, 2009, 199, 1657-1663.	1.9	46
24	A rare null allele potentially encoding a dominant-negative TRIM5Î± protein in Baka pygmies. Virology, 2009, 391, 140-147.	1.1	6
25	Molecular evolution of the antiretroviral TRIM5 gene. Immunogenetics, 2009, 61, 163-176.	1.2	94
26	A large new subset of TRIM genes highly diversified by duplication and positive selection in teleost fish. BMC Biology, 2009, 7, 7.	1.7	155
27	Genetic correlates of protection against HIV infection: the ally within. Journal of Internal Medicine, 2009, 265, 110-124.	2.7	53
28	Host Factors that Restrict Retrovirus Replication. , 2009, , 297-334.		0
29	Impact of novel TRIM5Î± variants, Gly110Arg and G176del, on the anti-HIV-1 activity and the susceptibility to HIV-1 infection. Aids, 2009, 23, 2091-2100.	1.0	28
30	Efforts to Characterize Host Response to HIV-1 Infection. , 2009, , 3-29.		0
31	Rubella vaccine-induced cellular immunity: evidence of associations with polymorphisms in the Toll-like, vitamin A and D receptors, and innate immune response genes. Human Genetics, 2010, 127, 207-221.	1.8	90
32	Long-term balancing selection maintains trans-specific polymorphisms in the human TRIM5 gene. Human Genetics, 2010, 128, 577-588.	1.8	52
33	Host genes associated with HIV/AIDS: advances in gene discovery. Trends in Genetics, 2010, 26, 119-131.	2.9	99
34	Antiâ€retroviral activity of TRIM5Î±. Reviews in Medical Virology, 2010, 20, 77-92.	3.9	59
37	Polymorphisms in the Vitamin A Receptor and Innate Immunity Genes Influence the Antibody Response to Rubella Vaccination. Journal of Infectious Diseases, 2010, 201, 207-213.	1.9	58
38	Strain-Specific Differences in the Impact of Human TRIM5Î±, Different TRIM5Î± Alleles, and the Inhibition of Capsid-Cyclophilin A Interactions on the Infectivity of HIV-1. Journal of Virology, 2010, 84, 11010-11019.	1.5	32
39	TRIM5Î± Modulates Immunodeficiency Virus Control in Rhesus Monkeys. PLoS Pathogens, 2010, 6, e1000738.	2.1	112

#	Article	IF	Citations
40	TRIM5 Suppresses Cross-Species Transmission of a Primate Immunodeficiency Virus and Selects for Emergence of Resistant Variants in the New Species. PLoS Biology, 2010, 8, e1000462.	2.6	243
41	A TRIM5Î± exon 2 polymorphism is associated with protection from HIV-1 infection in the Pumwani sex worker cohort. Aids, 2010, 24, 1813-1821.	1.0	43
42	Cellular HIV-1 restriction factors: a new avenue for AIDS therapy?. Future Virology, 2010, 5, 417-433.	0.9	10
43	Insights into Cellular Factors That Regulate HIV-1 Replication in Human Cells. Biochemistry, 2011, 50, 920-931.	1.2	30
44	Host genetic polymorphisms associated with innate immune factors and HIV-1. Current Opinion in HIV and AIDS, 2011, 6, 427-434.	1.5	37
45	Vaccinomics: Current Findings, Challenges and Novel Approaches for Vaccine Development. AAPS Journal, 2011, 13, 438-444.	2.2	49
46	Modulation of TRIM5Â Activity in Human Cells by Alternatively Spliced TRIM5 Isoforms. Journal of Virology, 2011, 85, 7828-7835.	1.5	34
47	Recent Insights into the Mechanism and Consequences of TRIM5Î± Retroviral Restriction. AIDS Research and Human Retroviruses, 2011, 27, 231-238.	0.5	39
48	TRIM E3 ligases in HIV infection: Can these intrinsic immunity factors be harnessed for novel vaccines or therapies?. Virulence, 2011, 2, 360-366.	1.8	2
49	An HIV-1 Resistance Polymorphism in TRIM5Î± Gene Among Chinese Intravenous Drug Users. Journal of Acquired Immune Deficiency Syndromes (1999), 2011, 56, 306-311.	0.9	28
50	Common human genetic variants and HIV-1 susceptibility: a genome-wide survey in a homogeneous African population. Aids, 2011, 25, 513-518.	1.0	77
51	Human immunodeficiency virus type 1 long-term non-progressors: the viral, genetic and immunological basis for disease non-progression. Journal of General Virology, 2011, 92, 247-268.	1.3	140
52	Vaccinomics and a New Paradigm for the Development of Preventive Vaccines Against Viral Infections. OMICS A Journal of Integrative Biology, 2011, 15, 625-636.	1.0	82
53	HIV-1 transmission and viral adaptation to the host. Future Virology, 2012, 7, 63-71.	0.9	6
54	HIV-1 control in battlegrounds: important host genetic variations for HIV-1 mother-to-child transmission and progression to clinical pediatric AIDS. Future Virology, 2012, 7, 659-678.	0.9	1
55	Evidence for selection at HIV host susceptibility genes in a West Central African human population. BMC Evolutionary Biology, 2012, 12, 237.	3.2	20
56	Viral and host determinants of HIV-1 disease progression. , 2012, , 59-75.		0
57	Host Genes Important to HIV Replication and Evolution. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a007203-a007203.	2.9	23

#	Article	IF	Citations
58	Role of Human TRIM5Î± in Intrinsic Immunity. Frontiers in Microbiology, 2012, 3, 97.	1.5	16
59	Host Genetics and Resistance to HIV-1 Infection. , 2012, , 169-209.		1
60	A rare missense variant abrogates the signaling activity of tetherin/BST-2 without affecting its effect on virus release. Retrovirology, 2013, 10, 85.	0.9	22
61	Host genomic influences on HIV/AIDS. Genome Biology, 2013, 14, 201.	13.9	20
62	Insights from host genomics into HIV infection and disease: Identification of host targets for drug development. Antiviral Research, 2013, 100, 473-486.	1.9	11
63	Susceptibility and adaptation to human TRIM5Î± alleles at positive selected sites in HIV-1 capsid. Virology, 2013, 441, 162-170.	1.1	12
64	The genetic basis of resistance to HIV infection and disease progression. Expert Review of Clinical Immunology, 2013, 9, 319-334.	1.3	13
65	Rapid Adversarial Co-Evolution of Viruses and Cellular Restriction Factors. Current Topics in Microbiology and Immunology, 2013, 371, 123-151.	0.7	25
66	A Naturally Occurring Single Amino Acid Substitution in Human TRIM5Î± Linker Region Affects Its Anti-HIV Type 1 Activity and Susceptibility to HIV Type 1 Infection. AIDS Research and Human Retroviruses, 2013, 29, 919-924.	0.5	18
67	TRIM5 alpha Drives SIVsmm Evolution in Rhesus Macaques. PLoS Pathogens, 2013, 9, e1003577.	2.1	47
68	Host Factors and HIV-1 Replication: Clinical Evidence and Potential Therapeutic Approaches. Frontiers in Immunology, 2013, 4, 343.	2.2	45
69	Learning from the Messengers: Innate Sensing of Viruses and Cytokine Regulation of Immunity â€" Clues for Treatments and Vaccines. Viruses, 2013, 5, 470-527.	1.5	42
70	Association Study of Common Genetic Variants and HIV-1 Acquisition in 6,300 Infected Cases and 7,200 Controls. PLoS Pathogens, 2013, 9, e1003515.	2.1	109
71	Pressure from TRIM5Î± Contributes to Control of HIV-1 Replication by Individuals Expressing Protective HLA-B Alleles. Journal of Virology, 2013, 87, 10368-10380.	1.5	25
72	Association of BST-2 Gene Variants With HIV Disease Progression Underscores the Role of BST-2 in HIV Type 1 Infection. Journal of Infectious Diseases, 2013, 207, 411-419.	1.9	26
73	Human Immunodeficiency Viruses Types 1 and 2. , 2014, , 1001-1062.		0
74	Stabilized Human TRIM5Î± Protects Human T Cells From HIV-1 Infection. Molecular Therapy, 2014, 22, 1084-1095.	3.7	33
75	TRIM5Î± Variations Influence Transduction Efficiency With Lentiviral Vectors in Both Human and Rhesus CD34 + Cells In Vitro and In Vivo. Molecular Therapy, 2014, 22, 348-358.	3.7	26

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76	Impact of TRIM5Î± in vivo. Aids, 2015, 29, 1733-1743.	1.0	20
77	TRIM5Î± H43Y Polymorphism and Susceptibility to HIV-1 Infection: A Meta-Analysis. AIDS Research and Human Retroviruses, 2015, 31, 1213-1218.	0.5	2
78	High Expression of Antiviral Proteins in Mucosa from Individuals Exhibiting Resistance to Human Immunodeficiency Virus. PLoS ONE, 2015, 10, e0131139.	1.1	16
79	TRIM5Î± Restriction Affects Clinical Outcome and Disease Progression in Simian Immunodeficiency Virus-Infected Rhesus Macaques. Journal of Virology, 2015, 89, 2233-2240.	1.5	18
80	Previously Unidentified Single Nucleotide Polymorphisms in HIV/AIDS Cases Associate with Clinical Parameters and Disease Progression. BioMed Research International, 2016, 2016, 1-9.	0.9	14
81	TRIM5 gene polymorphisms in HIV-1-infected patients and healthy controls from Northeastern Brazil. Immunologic Research, 2016, 64, 1237-1242.	1.3	11
82	Cyclophilins and nucleoporins are required for infection mediated by capsids from circulating HIV-2 primary isolates. Scientific Reports, 2017, 7, 45214.	1.6	12
83	Effects of host restriction factors and the HTLV-1 subtype on susceptibility to HTLV-1-associated myelopathy/tropical spastic paraparesis. Retrovirology, 2017, 14, 26.	0.9	20
84	The Immunopathogenesis of HIV-1 Infection. , 2017, , 837-845.e3.		1
85	Targeting TRIM5Î± in HIV Cure Strategies for the CRISPR-Cas9 Era. Frontiers in Immunology, 2017, 8, 1616.	2.2	6
86	Impact of cellular restriction gene (TRIM5Î±, BSTâ€2) polymorphisms on the acquisition of HIVâ€1 and disease progression. Journal of Gene Medicine, 2018, 20, e3004.	1.4	10
87	Restriction Factors: From Intrinsic Viral Restriction to Shaping Cellular Immunity Against HIV-1. Frontiers in Immunology, 2018, 9, 2876.	2.2	141
88	Host Restriction Factors and Human Immunodeficiency Virus (HIV-1): A Dynamic Interplay Involving All Phases of the Viral Life Cycle. Current HIV Research, 2018, 16, 184-207.	0.2	18
89	Population Structure and Implications on the Genetic Architecture of HIV-1 Phenotypes Within Southern Africa. Frontiers in Genetics, 2019, 10, 905.	1.1	15
90	Defects in assembly explain reduced antiviral activity of the G249D polymorphism in human TRIM5Î±. PLoS ONE, 2019, 14, e0212888.	1.1	0
91	Not so unique to Primates: The independent adaptive evolution of TRIM5 in Lagomorpha lineage. PLoS ONE, 2019, 14, e0226202.	1.1	7
92	Association of a single nucleotide polymorphism in the ubxn6 gene with long-term non-progression phenotype in HIV-positive individuals. Clinical Microbiology and Infection, 2020, 26, 107-114.	2.8	3
93	A non-canonical role for the autophagy machinery in anti-retroviral signaling mediated by TRIM5Î±. PLoS Pathogens, 2020, 16, e1009017.	2.1	12

#	Article	IF	Citations
94	Variations in Trim5Î± and Cyclophilin A genes among HIV-1 elite controllers and non controllers in Uganda: a laboratory-based cross-sectional study. Retrovirology, 2020, 17, 19.	0.9	0
95	The impact of bone marrow stromal antigen-2 (BST2) gene variants on HIV-1 control in black South African individuals. Infection, Genetics and Evolution, 2020, 80, 104216.	1.0	2
96	Human TRIM5Î±: Autophagy Connects Cell-Intrinsic HIV-1 Restriction and Innate Immune Sensor Functioning. Viruses, 2021, 13, 320.	1.5	13
97	HIV-1 and human genetic variation. Nature Reviews Genetics, 2021, 22, 645-657.	7.7	39
98	TRIM5alpha. Current Topics in Microbiology and Immunology, 2009, 339, 47-66.	0.7	12
99	Human Immunodeficiency Viruses. , 2010, , 2323-2335.		7
100	Human Immunodeficiency Viruses. , 2015, , 2054-2065.e3.		3
101	Capsid-binding retrovirus restriction factors: discovery, restriction specificity and implications for the development of novel therapeutics. Journal of General Virology, 2013, 94, 2587-2598.	1.3	51
102	Evolutionary and Functional Analysis of Old World Primate TRIM5 Reveals the Ancient Emergence of Primate Lentiviruses and Convergent Evolution Targeting a Conserved Capsid Interface. PLoS Pathogens, 2015, 11, e1005085.	2.1	37
103	Genetic and Immunological Factors Involved in Natural Resistance to HIV-1 Infection. The Open Virology Journal, 2011, 5, 35-43.	1.8	17
104	The immunopathogenesis of HIV-1 infection. , 2010, , 944-953.		0
107	Natural Killer Cell Receptor NKG2A/HLA-E Interaction Dependent Differential Thymopoiesis of Hematopoietic Progenitor Cells Influences the Outcome of HIV Infection. Journal of Stem Cells, 2007, 2, 237-248.	1.0	14
108	Genetic polymorphisms of Trim5a are associated with disease progression in acutely and chronically HIV-infected patients. International Journal of Clinical and Experimental Medicine, 2015, 8, 16199-206.	1.3	2
109	Genome-wide association study reveals genetic variants associated with HIV-1C infection in a Botswana study population. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2107830118.	3.3	3
110	APOBEC3, TRIM5Î±, and BST2 polymorphisms in healthy individuals of various populations with special references to its impact on HIV transmission. Microbial Pathogenesis, 2021, , 105326.	1.3	0