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**HIV-1 entry cofactor: functional cDNA cloning of a seven-transmembrane, G protein-coupled receptor**

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2035	Virus-cell and cell-cell fusion. <b>1996</b> , 12, 627-61		500
2034	SPC3, a V3 loop-derived synthetic peptide inhibitor of HIV-1 infection, binds to cell surface glycosphingolipids. <b>1996</b> , 35, 15663-71		53
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2030	Phosphorothiolate ribozyme against the conserved sequence in V3 loop of HIV-1. <b>1996</b> , 229, 466-71		10
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521	CD4-independent infection by human immunodeficiency virus type 2 strain ROD/B: the role of the N-terminal domain of CXCR-4 in fusion and entry. <b>1997</b> , 71, 4419-24	44
520	Differential susceptibility of naive and memory CD4+ T cells to the cytopathic effects of infection with human immunodeficiency virus type 1 strain LAI. <b>1997</b> , 71, 4436-44	69
519	Human T cells recovered from human/Balb radiation chimeras are hypersensitive to human immunodeficiency virus type 1 infection. <b>1997</b> , 71, 4495-501	5
518	Murine retroviruses use at least six different receptors for entry into Mus dunni cells. <b>1997</b> , 71, 4531-5	38
517	Role of the extracellular domain of human herpesvirus 7 glycoprotein B in virus binding to cell surface heparan sulfate proteoglycans. <b>1997</b> , 71, 4571-80	66
516	Epstein-Barr virus uses HLA class II as a cofactor for infection of B lymphocytes. <b>1997</b> , 71, 4657-62	230
515	Coxsackievirus A21 binds to decay-accelerating factor but requires intercellular adhesion molecule 1 for cell entry. <b>1997</b> , 71, 4736-43	174
514	Role of the first and third extracellular domains of CXCR-4 in human immunodeficiency virus coreceptor activity. <b>1997</b> , 71, 4744-51	146
513	Monoclonal antibodies to a 55-kilodalton protein present in duck liver inhibit infection of primary duck hepatocytes with duck hepatitis B virus. <b>1997</b> , 71, 4829-31	8
512	Contribution of virion ICAM-1 to human immunodeficiency virus infectivity and sensitivity to neutralization. <b>1997</b> , 71, 4847-51	114
511	Multiple extracellular domains of CCR-5 contribute to human immunodeficiency virus type 1 entry and fusion. <b>1997</b> , 71, 5003-11	108
510	Specific targeting to CD4+ cells of recombinant vesicular stomatitis viruses encoding human immunodeficiency virus envelope proteins. <b>1997</b> , 71, 5060-8	93
509	Biological characterization of human immunodeficiency virus type 1 clones derived from different organs of an AIDS patient by long-range PCR. <b>1997</b> , 71, 5140-7	36
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506	Enhancement of human immunodeficiency virus type 1 envelope-mediated fusion by a CD4-gp120 complex-specific monoclonal antibody. <b>1997</b> , 71, 6037-43	18
505	Sequence and structure alignment of Paramyxoviridae attachment proteins and discovery of enzymatic activity for a morbillivirus hemagglutinin. <b>1997</b> , 71, 6155-67	116
504	Envelope glycoproteins from human immunodeficiency virus types 1 and 2 and simian immunodeficiency virus can use human CCR5 as a coreceptor for viral entry and make direct CD4-dependent interactions with this chemokine receptor. <b>1997</b> , 71, 6296-304	178
503	Two distinct CCR5 domains can mediate coreceptor usage by human immunodeficiency virus type 1. <b>1997</b> , 71, 6305-14	188
502	A 45,000-M(r) glycoprotein in the Sendai virus envelope triggers virus-cell fusion. <b>1997</b> , 71, 6398-406	11
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500	Simian immunodeficiency virus variants with differential T-cell and macrophage tropism use CCR5 and an unidentified cofactor expressed in CEMx174 cells for efficient entry. <b>1997</b> , 71, 6509-16	69
499	CXCR4 expression during lymphopoiesis: implications for human immunodeficiency virus type 1 infection of the thymus. <b>1997</b> , 71, 6928-34	96
498	Murine CXCR-4 is a functional coreceptor for T-cell-tropic and dual-tropic strains of human immunodeficiency virus type 1. <b>1997</b> , 71, 7097-100	21
497	Chemokine receptor CCR5 genotype influences the kinetics of human immunodeficiency virus type 1 infection in human PBL-SCID mice. <b>1997</b> , 71, 7124-7	29
496	A single amino acid substitution in the transmembrane envelope glycoprotein of feline immunodeficiency virus alters cellular tropism. <b>1997</b> , 71, 7132-5	30
495	Selective employment of chemokine receptors as human immunodeficiency virus type 1 coreceptors determined by individual amino acids within the envelope V3 loop. <b>1997</b> , 71, 7136-9	237
494	Tracking members of the simian immunodeficiency virus deltaB670 quasispecies population in vivo at single-cell resolution. <b>1998</b> , 72, 113-20	23
493	Changes in the extracellular envelope glycoprotein of variants that evolve during the course of simian immunodeficiency virus SIVMne infection affect neutralizing antibody recognition, syncytium formation, and macrophage tropism but not replication, cytopathicity, or CCR-5	78
492	Infectious cellular load in human immunodeficiency virus type 1 (HIV-1)-infected individuals and susceptibility of peripheral blood mononuclear cells from their exposed partners to non-syncytium-inducing HIV-1 as major determinants for HIV-1 transmission in homosexual couples. <b>1998</b> , 72, 218-24	29
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490	Genetic subtype-independent inhibition of human immunodeficiency virus type 1 replication by CC and CXC chemokines. <b>1998</b> , 72, 396-404	104
489	Analysis of the temporal relationship between human immunodeficiency virus type 1 quasispecies in sequential blood samples and various organs obtained at autopsy. <b>1998</b> , 72, 488-96	108

488	Spontaneous mutations in the env gene of the human immunodeficiency virus type 1 NDK isolate are associated with a CD4-independent entry phenotype. <b>1998</b> , 72, 512-9	131
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475	CXCR4 as a functional coreceptor for human immunodeficiency virus type 1 infection of primary macrophages. <b>1998</b> , 72, 8453-7	125
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469	Level of ICAM-1 surface expression on virus producer cells influences both the amount of virion-bound host ICAM-1 and human immunodeficiency virus type 1 infectivity. <b>1998, 72, 9329-36</b>	58
468	Use of coreceptors other than CCR5 by non-syncytium-inducing adult and pediatric isolates of human immunodeficiency virus type 1 is rare in vitro. <b>1998, 72, 9337-44</b>	120
467	CCR5- and CXCR4-utilizing strains of human immunodeficiency virus type 1 exhibit differential tropism and pathogenesis in vivo. <b>1998, 72, 10108-17</b>	84
466	Differential tropism and replication kinetics of human immunodeficiency virus type 1 isolates in thymocytes: coreceptor expression allows viral entry, but productive infection of distinct subsets is determined at the postentry level. <b>1998, 72, 9441-52</b>	63
465	T-tropic human immunodeficiency virus type 1 (HIV-1)-derived V3 loop peptides directly bind to CXCR-4 and inhibit T-tropic HIV-1 infection. <b>1998, 72, 9763-70</b>	43
464	Neutralizing monoclonal antibodies block human immunodeficiency virus type 1 infection of dendritic cells and transmission to T cells. <b>1998, 72, 9788-94</b>	75
463	Induction of neutralizing antibodies to T-cell line-adapted and primary human immunodeficiency virus type 1 isolates with a prime-boost vaccine regimen in chimpanzees. <b>1998, 72, 1052-9</b>	60
462	A tyrosine-rich region in the N terminus of CCR5 is important for human immunodeficiency virus type 1 entry and mediates an association between gp120 and CCR5. <b>1998, 72, 1160-4</b>	173
461	Differential tropism and chemokine receptor expression of human immunodeficiency virus type 1 in neonatal monocytes, monocyte-derived macrophages, and placental macrophages. <b>1998, 72, 1334-44</b>	72
460	Mutation-directed chemical cross-linking of human immunodeficiency virus type 1 gp41 oligomers. <b>1998, 72, 1523-33</b>	13
459	A27L protein mediates vaccinia virus interaction with cell surface heparan sulfate. <b>1998, 72, 1577-85</b>	240
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455	Neutralization sensitivity of human immunodeficiency virus type 1 primary isolates to antibodies and CD4-based reagents is independent of coreceptor usage. <b>1998, 72, 1876-85</b>	133
454	Evidence that antibody-mediated neutralization of human immunodeficiency virus type 1 by sera from infected individuals is independent of coreceptor usage. <b>1998, 72, 1886-93</b>	65
453	Multiple residues contribute to the inability of murine CCR-5 to function as a coreceptor for macrophage-tropic human immunodeficiency virus type 1 isolates. <b>1998, 72, 1918-24</b>	60

452	Identification of a domain within the human T-cell leukemia virus type 2 envelope required for syncytium induction and replication. <b>1998</b> , 72, 1959-66	10
451	The cell tropism of human immunodeficiency virus type 1 determines the kinetics of plasma viremia in SCID mice reconstituted with human peripheral blood leukocytes. <b>1998</b> , 72, 2002-9	40
450	Modulation of feline immunodeficiency virus infection by stromal cell-derived factor. <b>1998</b> , 72, 2097-104	43
449	T cells expressing activated LFA-1 are more susceptible to infection with human immunodeficiency virus type 1 particles bearing host-encoded ICAM-1. <b>1998</b> , 72, 2105-12	88
448	Cytosolic Gag p24 as an index of productive entry of human immunodeficiency virus type 1. <b>1998</b> , 72, 2208-12	174
447	Coreceptor utilization by human immunodeficiency virus type 1 is not a primary determinant of neutralization sensitivity. <b>1998</b> , 72, 2491-5	48
446	Identification of determinants on a dualtropic human immunodeficiency virus type 1 envelope glycoprotein that confer usage of CXCR4. <b>1998</b> , 72, 2509-15	125
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440	Human immunodeficiency virus type 1 attachment to HeLa CD4 cells is CD4 independent and gp120 dependent and requires cell surface heparans. <b>1998</b> , 72, 3623-34	242
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438	A broad range of chemokine receptors are used by primary isolates of human immunodeficiency virus type 2 as coreceptors with CD4. <b>1998</b> , 72, 4065-71	68
437	Chemokine receptor utilization by human immunodeficiency virus type 1 isolates that replicate in microglia. <b>1998</b> , 72, 4243-9	102
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431	CD4-Induced conformational changes in the human immunodeficiency virus type 1 gp120 glycoprotein: consequences for virus entry and neutralization. <b>1998</b> , 72, 4694-703	240
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429	Evolution of syncytium-inducing and non-syncytium-inducing biological virus clones in relation to replication kinetics during the course of human immunodeficiency virus type 1 infection. <b>1998</b> , 72, 5099-107	85
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427	Functional interaction of human immunodeficiency virus type 1 Vpu and Gag with a novel member of the tetratricopeptide repeat protein family. <b>1998</b> , 72, 5189-97	64
426	Similar levels of human immunodeficiency virus type 1 replication in human TH1 and TH2 clones. <b>1998</b> , 72, 5231-8	14
425	Actin-dependent receptor colocalization required for human immunodeficiency virus entry into host cells. <b>1998</b> , 72, 5251-5	167
424	Genetically divergent strains of human immunodeficiency virus type 2 use multiple coreceptors for viral entry. <b>1998</b> , 72, 5425-32	82
423	Rabbit cells expressing human CD4 and human CCR5 are highly permissive for human immunodeficiency virus type 1 infection. <b>1998</b> , 72, 5728-34	32
422	Exclusive and persistent use of the entry coreceptor CXCR4 by human immunodeficiency virus type 1 from a subject homozygous for CCR5 delta32. <b>1998</b> , 72, 6040-7	139
421	The orphan seven-transmembrane receptor apj supports the entry of primary T-cell-line-tropic and dualtropic human immunodeficiency virus type 1. <b>1998</b> , 72, 6113-8	158
420	CXCR4 and CCR5 genetic polymorphisms in long-term nonprogressive human immunodeficiency virus infection: lack of association with mutations other than CCR5-Delta32. <b>1998</b> , 72, 6215-7	48
419	Coreceptor usage of human immunodeficiency virus type 2 primary isolates and biological clones is broad and does not correlate with their syncytium-inducing capacities. <b>1998</b> , 72, 6260-3	36
418	Inhibition of simian immunodeficiency virus (SIV) replication by CD8(+) T lymphocytes from macaques immunized with live attenuated SIV. <b>1998</b> , 72, 6315-24	59
417	Determinants of human immunodeficiency virus type 1 envelope glycoprotein activation by soluble CD4 and monoclonal antibodies. <b>1998</b> , 72, 6332-8	119

416	The second extracellular loop of CXCR4 determines its function as a receptor for feline immunodeficiency virus. <b>1998</b> , 72, 6475-81	48
415	Viral genetic evolution in macaques infected with molecularly cloned simian immunodeficiency virus correlates with the extent of persistent viremia. <b>1998</b> , 72, 6482-9	14
414	Dendritic cells transmit human immunodeficiency virus type 1 to monocytes and monocyte-derived macrophages. <b>1998</b> , 72, 6671-7	33
413	CXCR4 is required by a nonprimate lentivirus: heterologous expression of feline immunodeficiency virus in human, rodent, and feline cells. <b>1998</b> , 72, 6858-66	82
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410	Influence of the CCR2-V64I polymorphism on human immunodeficiency virus type 1 coreceptor activity and on chemokine receptor function of CCR2b, CCR3, CCR5, and CXCR4. <b>1998</b> , 72, 7450-8	113
409	Stabilization of human immunodeficiency virus type 1 envelope glycoprotein trimers by disulfide bonds introduced into the gp41 glycoprotein ectodomain. <b>1998</b> , 72, 7620-5	69
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407	Persistent infection promotes cross-species transmissibility of mouse hepatitis virus. <b>1999</b> , 73, 638-49	67
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404	Adaptation of a CCR5-using, primary human immunodeficiency virus type 1 isolate for CD4-independent replication. <b>1999</b> , 73, 8120-6	136
403	Analysis of the critical domain in the V3 loop of human immunodeficiency virus type 1 gp120 involved in CCR5 utilization. <b>1999</b> , 73, 8216-26	109
402	Lymphotropic virions affect chemokine receptor-mediated neural signaling and apoptosis: implications for human immunodeficiency virus type 1-associated dementia. <b>1999</b> , 73, 8256-67	111
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398	The mode and duration of anti-CD28 costimulation determine resistance to infection by macrophage-tropic strains of human immunodeficiency virus type 1 in vitro. <b>1999</b> , 73, 9337-47	18
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393	T134, a small-molecule CXCR4 inhibitor, has no cross-drug resistance with AMD3100, a CXCR4 antagonist with a different structure. <b>1999</b> , 73, 1719-23	87
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379	Cross-subtype neutralizing antibodies induced in baboons by a subtype E gp120 immunogen based on an R5 primary human immunodeficiency virus type 1 envelope. <b>1999</b> , 73, 4640-50	45
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377	Characterization of a Chinese hamster ovary cell line developed by retroviral insertional mutagenesis that is resistant to Sindbis virus infection. <b>1999</b> , 73, 4919-24	16
376	An orphan G protein-coupled receptor, GPR1, acts as a coreceptor to allow replication of human immunodeficiency virus types 1 and 2 in brain-derived cells. <b>1999</b> , 73, 5231-9	56
375	Effects of soluble CD4 on simian immunodeficiency virus infection of CD4-positive and CD4-negative cells. <b>1999</b> , 73, 5373-80	52
374	Dendritic cell-T-cell interactions support coreceptor-independent human immunodeficiency virus type 1 transmission in the human genital tract. <b>1999</b> , 73, 5833-42	61
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372	Characterization of V3 sequence heterogeneity in subtype C human immunodeficiency virus type 1 isolates from Malawi: underrepresentation of X4 variants. <b>1999</b> , 73, 6271-81	165
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358	Retention of CXCR4 in the endoplasmic reticulum blocks dissemination of a T cell hybridoma. <b>2001</b> , 108, 269-77	45
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2 CXC chemokine receptor 4 (CXCR4) blockade in cancer treatment. ○

1 Assays Based on Pseudotyped Viruses. **2023**, 29-44 ○