

Broadly Neutralizing HIV Antibodies Define a Glycan-D Conformation of gp41 on Cleaved Envelope Trimers

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Trial, Error, and Breakthrough: A Review of HIV Vaccine Development. <i>Journal of AIDS & Clinical Research</i> , 2014, 05, .	0.5	5
2	The role of N-glycans of HIV-1 gp41 in virus infectivity and susceptibility to the suppressive effects of carbohydrate-binding agents. <i>Retrovirology</i> , 2014, 11, 107.	0.9	8
3	Recombinant HIV envelope trimer selects for quaternary-dependent antibodies targeting the trimer apex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17624-17629.	3.3	324
4	Immunologic Basis for Long HCDR3s in Broadly Neutralizing Antibodies Against HIV-1. <i>Frontiers in Immunology</i> , 2014, 5, 250.	2.2	102
5	Mass Spectrometry Approach and ELISA Reveal the Effect of Codon Optimization on N-Linked Glycosylation of HIV-1 gp120. <i>Journal of Proteome Research</i> , 2014, 13, 5801-5811.	1.8	8
6	Structural Delineation of a Quaternary, Cleavage-Dependent Epitope at the gp41-gp120 Interface on Intact HIV-1 Env Trimers. <i>Immunity</i> , 2014, 40, 669-680.	6.6	323
7	Recent strategies targeting HIV glycans in vaccine design. <i>Nature Chemical Biology</i> , 2014, 10, 990-999.	3.9	95
8	Enhanced Potency of a Broadly Neutralizing HIV-1 Antibody <i>In Vitro</i> Improves Protection against Lentiviral Infection <i>In Vivo</i> . <i>Journal of Virology</i> , 2014, 88, 12669-12682.	1.5	248
9	Drift of the HIV-1 Envelope Glycoprotein gp120 toward Increased Neutralization Resistance over the Course of the Epidemic: a Comprehensive Study Using the Most Potent and Broadly Neutralizing Monoclonal Antibodies. <i>Journal of Virology</i> , 2014, 88, 13910-13917.	1.5	42
10	Eliciting neutralizing antibodies with gp120 outer domain constructs based on M-group consensus sequence. <i>Virology</i> , 2014, 462-463, 363-376.	1.1	19
11	Cardiomyopathy, mitochondria and Barth syndrome: iPSCs reveal a connection. <i>Nature Medicine</i> , 2014, 20, 585-586.	15.2	8
12	Differential binding of neutralizing and non-neutralizing antibodies to native-like soluble HIV-1 Env trimers, uncleaved Env proteins, and monomeric subunits. <i>Retrovirology</i> , 2014, 11, 41.	0.9	139
13	Antibody B cell responses in HIV-1 infection. <i>Trends in Immunology</i> , 2014, 35, 549-561.	2.9	91
14	Structure and immune recognition of trimeric pre-fusion HIV-1 Env. <i>Nature</i> , 2014, 514, 455-461.	13.7	702
15	Lessons from babies: inducing HIV-1 broadly neutralizing antibodies. <i>Nature Medicine</i> , 2014, 20, 583-585.	15.2	7
16	Broad and potent HIV-1 neutralization by a human antibody that binds the gp41-gp120 interface. <i>Nature</i> , 2014, 515, 138-142.	13.7	400
17	Antibody engineering for increased potency, breadth and half-life. <i>Current Opinion in HIV and AIDS</i> , 2015, 10, 151-159.	1.5	46
18	HIV broadly neutralizing antibody targets. <i>Current Opinion in HIV and AIDS</i> , 2015, 10, 135-143.	1.5	110

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19	Rhesus Macaque B-Cell Responses to an HIV-1 Trimer Vaccine Revealed by Unbiased Longitudinal Repertoire Analysis. <i>MBio</i> , 2015, 6, e01375-15.	1.8	31
20	The <scp>HIV</scp> glycan shield as a target for broadly neutralizing antibodies. <i>FEBS Journal</i> , 2015, 282, 4679-4691.	2.2	106
21	Presenting native-like HIV-1 envelope trimers on ferritin nanoparticles improves their immunogenicity. <i>Retrovirology</i> , 2015, 12, 82.	0.9	156
22	Antibodies for HIV prevention in young women. <i>Current Opinion in HIV and AIDS</i> , 2015, 10, 183-189.	1.5	9
23	Engineering and Characterization of a Fluorescent Native-Like HIV-1 Envelope Glycoprotein Trimer. <i>Biomolecules</i> , 2015, 5, 2919-2934.	1.8	12
24	Directed Evolution of a Yeast-Displayed HIV-1 SOSIP gp140 Spike Protein toward Improved Expression and Affinity for Conformational Antibodies. <i>PLoS ONE</i> , 2015, 10, e0117227.	1.1	8
25	Effects of the I559P gp41 Change on the Conformation and Function of the Human Immunodeficiency Virus (HIV-1) Membrane Envelope Glycoprotein Trimer. <i>PLoS ONE</i> , 2015, 10, e0122111.	1.1	52
26	Identification of CD4-Binding Site Dependent Plasma Neutralizing Antibodies in an HIV-1 Infected Indian Individual. <i>PLoS ONE</i> , 2015, 10, e0125575.	1.1	13
27	A High Throughput Protein Microarray Approach to Classify HIV Monoclonal Antibodies and Variant Antigens. <i>PLoS ONE</i> , 2015, 10, e0125581.	1.1	14
28	The Broad Neutralizing Antibody Responses after HIV-1 Superinfection Are Not Dominated by Antibodies Directed to Epitopes Common in Single Infection. <i>PLoS Pathogens</i> , 2015, 11, e1004973.	2.1	29
29	Characterization of a Prefusion-Specific Antibody That Recognizes a Quaternary, Cleavage-Dependent Epitope on the RSV Fusion Glycoprotein. <i>PLoS Pathogens</i> , 2015, 11, e1005035.	2.1	106
30	Incomplete Neutralization and Deviation from Sigmoidal Neutralization Curves for HIV Broadly Neutralizing Monoclonal Antibodies. <i>PLoS Pathogens</i> , 2015, 11, e1005110.	2.1	78
31	The Use of Liposomes to Shape Epitope Structure and Modulate Immunogenic Responses of Peptide Vaccines Against HIV MPER. <i>Advances in Protein Chemistry and Structural Biology</i> , 2015, 99, 15-54.	1.0	20
32	Single-Chain Soluble BG505.SOSIP gp140 Trimers as Structural and Antigenic Mimics of Mature Closed HIV-1 Env. <i>Journal of Virology</i> , 2015, 89, 5318-5329.	1.5	125
33	Targeting host-derived glycans on enveloped viruses for antibody-based vaccine design. <i>Current Opinion in Virology</i> , 2015, 11, 63-69.	2.6	73
34	Reconstitution and characterization of antibody repertoires of HIV-1-infected "elite neutralizers". <i>Antiviral Research</i> , 2015, 118, 1-9.	1.9	12
35	Virologic effects of broadly neutralizing antibody VRC01 administration during chronic HIV-1 infection. <i>Science Translational Medicine</i> , 2015, 7, 319ra206.	5.8	390
36	Immunotherapeutic Approaches for the Control and Eradication of HIV. <i>Immunological Investigations</i> , 2015, 44, 719-730.	1.0	7

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37	Structural Constraints Determine the Glycosylation of HIV-1 Envelope Trimers. <i>Cell Reports</i> , 2015, 11, 1604-1613.	2.9	135
38	HIV-1 Fitness Cost Associated with Escape from the VRC01 Class of CD4 Binding Site Neutralizing Antibodies. <i>Journal of Virology</i> , 2015, 89, 4201-4213.	1.5	121
39	Improving Neutralization Potency and Breadth by Combining Broadly Reactive HIV-1 Antibodies Targeting Major Neutralization Epitopes. <i>Journal of Virology</i> , 2015, 89, 2659-2671.	1.5	123
40	Virological features associated with the development of broadly neutralizing antibodies to HIV-1. <i>Trends in Microbiology</i> , 2015, 23, 204-211.	3.5	77
41	Insights into the trimeric HIV-1 envelope glycoprotein structure. <i>Trends in Biochemical Sciences</i> , 2015, 40, 101-107.	3.7	95
42	Vaccine-Elicited Tier 2 HIV-1 Neutralizing Antibodies Bind to Quaternary Epitopes Involving Glycan-Deficient Patches Proximal to the CD4 Binding Site. <i>PLoS Pathogens</i> , 2015, 11, e1004932.	2.1	141
43	Diversion of HIV-1 vaccine-induced immunity by gp41-microbiota cross-reactive antibodies. <i>Science</i> , 2015, 349, aab1253.	6.0	191
44	Effect of the cytoplasmic domain on antigenic characteristics of HIV-1 envelope glycoprotein. <i>Science</i> , 2015, 349, 191-195.	6.0	113
45	Glycan-Dependent Neutralizing Antibodies Are Frequently Elicited in Individuals Chronically Infected with HIV-1 Clade B or C. <i>AIDS Research and Human Retroviruses</i> , 2015, 31, 1192-1201.	0.5	5
46	Glycan clustering stabilizes the mannose patch of HIV-1 and preserves vulnerability to broadly neutralizing antibodies. <i>Nature Communications</i> , 2015, 6, 7479.	5.8	113
47	Comparable Antigenicity and Immunogenicity of Oligomeric Forms of a Novel, Acute HIV-1 Subtype C gp145 Envelope for Use in Preclinical and Clinical Vaccine Research. <i>Journal of Virology</i> , 2015, 89, 7478-7493.	1.5	33
48	Carbohydrate-Based Vaccines. <i>Methods in Molecular Biology</i> , 2015, 1331, v-vi.	0.4	4
49	Comprehensive Antigenic Map of a Cleaved Soluble HIV-1 Envelope Trimer. <i>PLoS Pathogens</i> , 2015, 11, e1004767.	2.1	100
50	Well-Ordered Trimeric HIV-1 Subtype B and C Soluble Spike Mimetics Generated by Negative Selection Display Native-like Properties. <i>PLoS Pathogens</i> , 2015, 11, e1004570.	2.1	106
51	A Native-Like SOSIP.664 Trimer Based on an HIV-1 Subtype B <i>env</i> Gene. <i>Journal of Virology</i> , 2015, 89, 3380-3395.	1.5	247
52	Recent advance in the structural analysis of HIV-1 envelope protein. <i>Science China Life Sciences</i> , 2015, 58, 420-424.	2.3	1
53	Antibody responses to envelope glycoproteins in HIV-1 infection. <i>Nature Immunology</i> , 2015, 16, 571-576.	7.0	364
54	A Bivalent, Chimeric Rabies Virus Expressing Simian Immunodeficiency Virus Envelope Induces Multifunctional Antibody Responses. <i>AIDS Research and Human Retroviruses</i> , 2015, 31, 1126-1138.	0.5	8

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55	Glycan Microheterogeneity at the PGT135 Antibody Recognition Site on HIV-1 gp120 Reveals a Molecular Mechanism for Neutralization Resistance. <i>Journal of Virology</i> , 2015, 89, 6952-6959.	1.5	35
56	Immunogenic Display of Purified Chemically Cross-Linked HIV-1 Spikes. <i>Journal of Virology</i> , 2015, 89, 6725-6745.	1.5	24
57	Designing synthetic vaccines for HIV. <i>Expert Review of Vaccines</i> , 2015, 14, 815-831.	2.0	28
58	Viraemia suppressed in HIV-1-infected humans by broadly neutralizing antibody 3BNC117. <i>Nature</i> , 2015, 522, 487-491.	13.7	665
59	The Cellular and Molecular Biology of HIV-1 Broadly Neutralizing Antibodies. , 2015, , 441-461.		0
60	The HIV-1 gp120 CD4-Bound Conformation Is Preferentially Targeted by Antibody-Dependent Cellular Cytotoxicity-Mediating Antibodies in Sera from HIV-1-Infected Individuals. <i>Journal of Virology</i> , 2015, 89, 545-551.	1.5	173
61	Antibodies to a conformational epitope on gp41 neutralize HIV-1 by destabilizing the Env spike. <i>Nature Communications</i> , 2015, 6, 8167.	5.8	87
62	Dose-response curve slope helps predict therapeutic potency and breadth of HIV broadly neutralizing antibodies. <i>Nature Communications</i> , 2015, 6, 8443.	5.8	44
63	Reactivation of Neutralized HIV-1 by Dendritic Cells Is Dependent on the Epitope Bound by the Antibody. <i>Journal of Immunology</i> , 2015, 195, 3759-3768.	0.4	4
64	Cell- and Protein-Directed Glycosylation of Native Cleaved HIV-1 Envelope. <i>Journal of Virology</i> , 2015, 89, 8932-8944.	1.5	88
65	Determination of N-linked Glycosylation in Viral Glycoproteins by Negative Ion Mass Spectrometry and Ion Mobility. <i>Methods in Molecular Biology</i> , 2015, 1331, 93-121.	0.4	11
66	Neutralization Properties of Simian Immunodeficiency Viruses Infecting Chimpanzees and Gorillas. <i>MBio</i> , 2015, 6, .	1.8	25
67	A New Approach to Produce HIV-1 Envelope Trimers. <i>Journal of Biological Chemistry</i> , 2015, 290, 19780-19795.	1.6	22
68	Cleavage-Independent HIV-1 Env Trimers Engineered as Soluble Native Spike Mimetics for Vaccine Design. <i>Cell Reports</i> , 2015, 11, 539-550.	2.9	211
69	Identification of Common Features in Prototype Broadly Neutralizing Antibodies to HIV Envelope V2 Apex to Facilitate Vaccine Design. <i>Immunity</i> , 2015, 43, 959-973.	6.6	177
70	Immunogenic properties of a trimeric gp41-based immunogen containing an exposed membrane-proximal external region. <i>Virology</i> , 2015, 486, 187-197.	1.1	6
71	Exploring the Potential of Monoclonal Antibody Therapeutics for HIV-1 Eradication. <i>AIDS Research and Human Retroviruses</i> , 2015, 31, 13-24.	0.5	46
72	Antiviral Therapy by HIV-1 Broadly Neutralizing and Inhibitory Antibodies. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1901.	1.8	14

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73	Current Advances in Virus-Like Particles as a Vaccination Approach against HIV Infection. <i>Vaccines</i> , 2016, 4, 2.	2.1	17
74	Optimal Combinations of Broadly Neutralizing Antibodies for Prevention and Treatment of HIV-1 Clade C Infection. <i>PLoS Pathogens</i> , 2016, 12, e1005520.	2.1	150
75	Minimally Mutated HIV-1 Broadly Neutralizing Antibodies to Guide Reductionist Vaccine Design. <i>PLoS Pathogens</i> , 2016, 12, e1005815.	2.1	104
76	Diversification in the HIV-1 Envelope Hyper-variable Domains V2, V4, and V5 and Higher Probability of Transmitted/Founder Envelope Glycosylation Favor the Development of Heterologous Neutralization Breadth. <i>PLoS Pathogens</i> , 2016, 12, e1005989.	2.1	36
77	VLP vaccines and effects of HIV-1 Env protein modifications on their antigenic properties. <i>Molecular Biology</i> , 2016, 50, 353-361.	0.4	3
78	Passive immunization with HIV-1 neutralizing antibodies: is it effective and safe?. <i>Oral Diseases</i> , 2016, 22, 460-462.	1.5	0
79	Uncleaved prefusion-optimized gp140 trimers derived from analysis of HIV-1 envelope metastability. <i>Nature Communications</i> , 2016, 7, 12040.	5.8	134
80	Presenting native-like trimeric HIV-1 antigens with self-assembling nanoparticles. <i>Nature Communications</i> , 2016, 7, 12041.	5.8	146
81	HIV-1 Glycan Density Drives the Persistence of the Mannose Patch within an Infected Individual. <i>Journal of Virology</i> , 2016, 90, 11132-11144.	1.5	43
82	Clonify: unseeded antibody lineage assignment from next-generation sequencing data. <i>Scientific Reports</i> , 2016, 6, 23901.	1.6	48
83	Probability of N332 glycan occupancy on HIV-1 gp120 modulates sensitivity to broadly neutralizing antibodies. <i>Aids</i> , 2016, 30, 2179-2184.	1.0	3
84	Immunological strategies to target HIV persistence. <i>Current Opinion in HIV and AIDS</i> , 2016, 11, 402-408.	1.5	8
85	Probing the Impact of Local Structural Dynamics of Conformational Epitopes on Antibody Recognition. <i>Biochemistry</i> , 2016, 55, 2197-2213.	1.2	23
86	Antibody recognition of HIV and dengue glycoproteins. <i>Glycobiology</i> , 2016, 26, 813-819.	1.3	4
87	Early Antibody Lineage Diversification and Independent Limb Maturation Lead to Broad HIV-1 Neutralization Targeting the Env High-Mannose Patch. <i>Immunity</i> , 2016, 44, 1215-1226.	6.6	138
88	Optimization of the Solubility of HIV-1-Neutralizing Antibody 10E8 through Somatic Variation and Structure-Based Design. <i>Journal of Virology</i> , 2016, 90, 5899-5914.	1.5	62
89	Fusion peptide of HIV-1 as a site of vulnerability to neutralizing antibody. <i>Science</i> , 2016, 352, 828-833.	6.0	310
90	Broadly Neutralizing Antibodies to HIV and Their Role in Vaccine Design. <i>Annual Review of Immunology</i> , 2016, 34, 635-659.	9.5	500

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91	Tailored Immunogens Direct Affinity Maturation toward HIV Neutralizing Antibodies. <i>Cell</i> , 2016, 166, 1459-1470.e11.	13.5	230
92	High-Density Array of Well-Ordered HIV-1 Spikes on Synthetic Liposomal Nanoparticles Efficiently Activate B Cells. <i>Cell Reports</i> , 2016, 15, 1986-1999.	2.9	127
93	HIV Vaccine Design to Target Germline Precursors of Glycan-Dependent Broadly Neutralizing Antibodies. <i>Immunity</i> , 2016, 45, 483-496.	6.6	335
94	Changes in Structure and Antigenicity of HIV-1 Env Trimers Resulting from Removal of a Conserved CD4 Binding Site-Proximal Glycan. <i>Journal of Virology</i> , 2016, 90, 9224-9236.	1.5	25
95	Induction of Heterologous Tier 2 HIV-1-Neutralizing and Cross-Reactive V1/V2-Specific Antibodies in Rabbits by Prime-Boost Immunization. <i>Journal of Virology</i> , 2016, 90, 8644-8660.	1.5	13
96	Holes in the Glycan Shield of the Native HIV Envelope Are a Target of Trimer-Elicited Neutralizing Antibodies. <i>Cell Reports</i> , 2016, 16, 2327-2338.	2.9	216
97	Neutralization resistant HIV-1 primary isolates from antiretroviral naïve chronically infected children in India. <i>Virology</i> , 2016, 499, 105-113.	1.1	7
98	A Prominent Site of Antibody Vulnerability on HIV Envelope Incorporates a Motif Associated with CCR5 Binding and Its Camouflaging Glycans. <i>Immunity</i> , 2016, 45, 31-45.	6.6	129
99	Deconstructing the Antiviral Neutralizing-Antibody Response: Implications for Vaccine Development and Immunity. <i>Microbiology and Molecular Biology Reviews</i> , 2016, 80, 989-1010.	2.9	93
100	Membrane bound modified form of clade B Env, JRCSF is suitable for immunogen design as it is efficiently cleaved and displays all the broadly neutralizing epitopes including V2 and C2 domain-dependent conformational epitopes. <i>Retrovirology</i> , 2016, 13, 81.	0.9	10
101	Broadly Neutralizing Antibody-Guided Carbohydrate-Based HIV Vaccine Design: Challenges and Opportunities. <i>ChemMedChem</i> , 2016, 11, 357-362.	1.6	11
102	Antigenic landscape of the HIV-1 envelope and new immunological concepts defined by HIV-1 broadly neutralizing antibodies. <i>Current Opinion in Immunology</i> , 2016, 42, 56-64.	2.4	30
103	Perspectives on Anti-Glycan Antibodies Gleaned from Development of a Community Resource Database. <i>ACS Chemical Biology</i> , 2016, 11, 1773-1783.	1.6	110
104	Chemical Cross-Linking Stabilizes Native-Like HIV-1 Envelope Glycoprotein Trimer Antigens. <i>Journal of Virology</i> , 2016, 90, 813-828.	1.5	34
105	Engineered Bispecific Antibodies with Exquisite HIV-1-Neutralizing Activity. <i>Cell</i> , 2016, 165, 1621-1631.	13.5	157
106	HIV-1 Neutralizing Antibodies with Limited Hypermutation from an Infant. <i>Cell</i> , 2016, 166, 77-87.	13.5	143
107	Mechanisms of escape from the PGT128 family of anti-HIV broadly neutralizing antibodies. <i>Retrovirology</i> , 2016, 13, 8.	0.9	40
108	V1/V2 Neutralizing Epitope is Conserved in Divergent Non-M Groups of HIV-1. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2016, 71, 237-245.	0.9	7

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109	A Highly Conserved Residue of the HIV-1 gp120 Inner Domain Is Important for Antibody-Dependent Cellular Cytotoxicity Responses Mediated by Anti-cluster A Antibodies. <i>Journal of Virology</i> , 2016, 90, 2127-2134.	1.5	69
110	Cryo-EM structure of a native, fully glycosylated, cleaved HIV-1 envelope trimer. <i>Science</i> , 2016, 351, 1043-1048.	6.0	402
111	Conformational Epitope-Specific Broadly Neutralizing Plasma Antibodies Obtained from an HIV-1 Clade C-Infected Elite Neutralizer Mediate Autologous Virus Escape through Mutations in the V1 Loop. <i>Journal of Virology</i> , 2016, 90, 3446-3457.	1.5	29
112	HIV-1 Envelope Trimer Design and Immunization Strategies To Induce Broadly Neutralizing Antibodies. <i>Trends in Immunology</i> , 2016, 37, 221-232.	2.9	96
113	Modulating immunogenic properties of HIV-1 gp41 membrane-proximal external region by destabilizing six-helix bundle structure. <i>Virology</i> , 2016, 490, 17-26.	1.1	11
114	Composition and Antigenic Effects of Individual Glycan Sites of a Trimeric HIV-1 Envelope Glycoprotein. <i>Cell Reports</i> , 2016, 14, 2695-2706.	2.9	250
115	Modular synthesis of N-glycans and arrays for the hetero-ligand binding analysis of HIV antibodies. <i>Nature Chemistry</i> , 2016, 8, 338-346.	6.6	97
116	Native-like Env trimers as a platform for HIV vaccine design. <i>Immunological Reviews</i> , 2017, 275, 161-182.	2.8	221
117	Identification and specificity of broadly neutralizing antibodies against HIV. <i>Immunological Reviews</i> , 2017, 275, 11-20.	2.8	198
118	Use of broadly neutralizing antibodies for HIV prevention. <i>Immunological Reviews</i> , 2017, 275, 296-312.	2.8	131
119	Evolution of B cell analysis and Env trimer redesign. <i>Immunological Reviews</i> , 2017, 275, 183-202.	2.8	31
120	Antibodyomics: bioinformatics technologies for understanding B cell immunity to HIV. <i>Immunological Reviews</i> , 2017, 275, 108-128.	2.8	32
121	Survivors Remorse: antibody-mediated protection against HIV. <i>Immunological Reviews</i> , 2017, 275, 271-284.	2.8	25
122	Proteoliposomal formulations of an HIV-1 gp41-based miniprotein elicit a lipid-dependent immunodominant response overlapping the 2F5 binding motif. <i>Scientific Reports</i> , 2017, 7, 40800.	1.6	12
123	Lipophilicity is a key factor to increase the antiviral activity of HIV neutralizing antibodies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 311-316.	2.5	7
124	Glycosylation Benchmark Profile for HIV-1 Envelope Glycoprotein Production Based on Eleven Env Trimers. <i>Journal of Virology</i> , 2017, 91, .	1.5	73
125	Differential Antibody Responses to Conserved HIV-1 Neutralizing Epitopes in the Context of Multivalent Scaffolds and Native-Like gp140 Trimers. <i>MBio</i> , 2017, 8, .	1.8	28
126	Structure-Based Design of a Soluble Prefusion-Closed HIV-1 Env Trimer with Reduced CD4 Affinity and Improved Immunogenicity. <i>Journal of Virology</i> , 2017, 91, .	1.5	81

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127	Stabilization of a soluble, native-like trimeric form of an efficiently cleaved Indian HIV-1 clade C envelope glycoprotein. <i>Journal of Biological Chemistry</i> , 2017, 292, 8236-8243.	1.6	24
128	Dense Array of Spikes on HIV-1 Virion Particles. <i>Journal of Virology</i> , 2017, 91, .	1.5	53
129	Glycosylation of the core of the HIV-1 envelope subunit protein gp120 is not required for native trimer formation or viral infectivity. <i>Journal of Biological Chemistry</i> , 2017, 292, 10197-10219.	1.6	29
130	Comprehensive Mapping of HIV-1 Escape from a Broadly Neutralizing Antibody. <i>Cell Host and Microbe</i> , 2017, 21, 777-787.e4.	5.1	88
131	Unconventional Interrogation Yields HIV-1's Escape Plan. <i>Cell Host and Microbe</i> , 2017, 21, 659-660.	5.1	1
132	Structural principles controlling HIV envelope glycosylation. <i>Current Opinion in Structural Biology</i> , 2017, 44, 125-133.	2.6	99
133	How HIV-1 entry mechanism and broadly neutralizing antibodies guide structure-based vaccine design. <i>Current Opinion in HIV and AIDS</i> , 2017, 12, 229-240.	1.5	66
134	Global site-specific N-glycosylation analysis of HIV envelope glycoprotein. <i>Nature Communications</i> , 2017, 8, 14954.	5.8	176
135	Functional Stability of HIV-1 Envelope Trimer Affects Accessibility to Broadly Neutralizing Antibodies at Its Apex. <i>Journal of Virology</i> , 2017, 91, .	1.5	19
136	Glycans Function as Anchors for Antibodies and Help Drive HIV Broadly Neutralizing Antibody Development. <i>Immunity</i> , 2017, 47, 524-537.e3.	6.6	48
137	Serum glycan-binding IgG antibodies in HIV-1 infection and during the development of broadly neutralizing responses. <i>Aids</i> , 2017, 31, 2199-2209.	1.0	13
138	Glycosylation profiling to evaluate glycoprotein immunogens against HIV-1. <i>Expert Review of Proteomics</i> , 2017, 14, 881-890.	1.3	24
139	Chinks in the armor of the HIV-1 Envelope glycan shield: Implications for immune escape from anti-glycan broadly neutralizing antibodies. <i>Virology</i> , 2017, 501, 12-24.	1.1	9
140	An HIV-1 antibody from an elite neutralizer implicates the fusion peptide as a site of vulnerability. <i>Nature Microbiology</i> , 2017, 2, 16199.	5.9	144
141	Molecular Architecture of the Cleavage-Dependent Mannose Patch on a Soluble HIV-1 Envelope Glycoprotein Trimer. <i>Journal of Virology</i> , 2017, 91, .	1.5	77
142	Natural infection as a blueprint for rational HIV vaccine design. <i>Human Vaccines and Immunotherapeutics</i> , 2017, 13, 229-236.	1.4	3
143	Neutralizing Monoclonal Antibodies to Fight HIV-1: On the Threshold of Success. <i>Frontiers in Immunology</i> , 2017, 7, 661.	2.2	11
144	Hidden Lineage Complexity of Glycan-Dependent HIV-1 Broadly Neutralizing Antibodies Uncovered by Digital Panning and Native-Like gp140 Trimer. <i>Frontiers in Immunology</i> , 2017, 8, 1025.	2.2	21

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145	Mapping Polyclonal HIV-1 Antibody Responses via Next-Generation Neutralization Fingerprinting. <i>PLoS Pathogens</i> , 2017, 13, e1006148.	2.1	51
146	Distinct functions for the membrane-proximal ectodomain region (MPER) of HIV-1 gp41 in cell-free and cell-cell viral transmission and cell-cell fusion. <i>Journal of Biological Chemistry</i> , 2018, 293, 6099-6120.	1.6	12
147	Comparison of Uncleaved and Mature Human Immunodeficiency Virus Membrane Envelope Glycoprotein Trimers. <i>Journal of Virology</i> , 2018, 92, .	1.5	40
148	Molecular Basis of Unusually High Neutralization Resistance in Tier 3 HIV-1 Strain 253-11. <i>Journal of Virology</i> , 2018, 92, .	1.5	16
149	Potential HIV-1 fusion inhibitors mimicking gp41-specific broadly neutralizing antibody 10E8: In silico discovery and prediction of antiviral potency. <i>Journal of Bioinformatics and Computational Biology</i> , 2018, 16, 1840007.	0.3	5
150	Passive immunotherapy of viral infections: 'super-antibodies' enter the fray. <i>Nature Reviews Immunology</i> , 2018, 18, 297-308.	10.6	220
151	Integrity of Glycosylation Processing of a Glycan-Depleted Trimeric HIV-1 Immunogen Targeting Key B-Cell Lineages. <i>Journal of Proteome Research</i> , 2018, 17, 987-999.	1.8	23
152	Global site-specific analysis of glycoprotein N-glycan processing. <i>Nature Protocols</i> , 2018, 13, 1196-1212.	5.5	71
153	Structure and Immune Recognition of the HIV Glycan Shield. <i>Annual Review of Biophysics</i> , 2018, 47, 499-523.	4.5	115
154	Brief introduction of current technologies in isolation of broadly neutralizing HIV-1 antibodies. <i>Virus Research</i> , 2018, 243, 75-82.	1.1	12
155	New-Generation High-Potency and Designer Antibodies: Role in HIV-1 Treatment. <i>Annual Review of Medicine</i> , 2018, 69, 409-419.	5.0	28
156	Impact of HIV-1 Envelope Conformation on ADCC Responses. <i>Trends in Microbiology</i> , 2018, 26, 253-265.	3.5	64
157	Stabilization of the gp120 V3 loop through hydrophobic interactions reduces the immunodominant V3-directed non-neutralizing response to HIV-1 envelope trimers. <i>Journal of Biological Chemistry</i> , 2018, 293, 1688-1701.	1.6	40
158	HIV-1 vaccine design through minimizing envelope metastability. <i>Science Advances</i> , 2018, 4, eaau6769.	4.7	75
159	HIV-1 envelope glycan modifications that permit neutralization by germline-reverted VRC01-class broadly neutralizing antibodies. <i>PLoS Pathogens</i> , 2018, 14, e1007431.	2.1	36
160	Structural Rearrangements Maintain the Glycan Shield of an HIV-1 Envelope Trimer After the Loss of a Glycan. <i>Scientific Reports</i> , 2018, 8, 15031.	1.6	17
161	Single human B cell-derived monoclonal anti-Candida antibodies enhance phagocytosis and protect against disseminated candidiasis. <i>Nature Communications</i> , 2018, 9, 5288.	5.8	56
162	Preventive and therapeutic features of broadly neutralising monoclonal antibodies against HIV-1. <i>Lancet HIV</i> , 2018, 5, e723-e731.	2.1	10

#	ARTICLE	IF	CITATIONS
163	Recent progress in broadly neutralizing antibodies to HIV. <i>Nature Immunology</i> , 2018, 19, 1179-1188.	7.0	331
164	Identification of a novel broadly HIV-1-neutralizing antibody from a CRF01_AE-infected Chinese donor. <i>Emerging Microbes and Infections</i> , 2018, 7, 1-12.	3.0	7
165	The expanding array of HIV broadly neutralizing antibodies. <i>Retrovirology</i> , 2018, 15, 70.	0.9	38
166	Differential processing of HIV envelope glycans on the virus and soluble recombinant trimer. <i>Nature Communications</i> , 2018, 9, 3693.	5.8	124
167	Harnessing post-translational modifications for next-generation HIV immunogens. <i>Biochemical Society Transactions</i> , 2018, 46, 691-698.	1.6	5
168	Structural and immunologic correlates of chemically stabilized HIV-1 envelope glycoproteins. <i>PLoS Pathogens</i> , 2018, 14, e1006986.	2.1	28
169	Electron-Microscopy-Based Epitope Mapping Defines Specificities of Polyclonal Antibodies Elicited during HIV-1 BG505 Envelope Trimer Immunization. <i>Immunity</i> , 2018, 49, 288-300.e8.	6.6	175
170	Glycoengineering HIV-1 Env creates "supercharged" and "hybrid" glycans to increase neutralizing antibody potency, breadth and saturation. <i>PLoS Pathogens</i> , 2018, 14, e1007024.	2.1	22
172	Targeting Glycans on Human Pathogens for Vaccine Design. <i>Current Topics in Microbiology and Immunology</i> , 2018, 428, 129-163.	0.7	5
173	Complete functional mapping of infection- and vaccine-elicited antibodies against the fusion peptide of HIV. <i>PLoS Pathogens</i> , 2018, 14, e1007159.	2.1	46
174	SOSIP Changes Affect Human Immunodeficiency Virus Type 1 Envelope Glycoprotein Conformation and CD4 Engagement. <i>Journal of Virology</i> , 2018, 92, .	1.5	24
175	HIV Broadly Neutralizing Antibodies: VRC01 and Beyond. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1075, 53-72.	0.8	10
176	The Glycoscience of Immunity. <i>Trends in Immunology</i> , 2018, 39, 523-535.	2.9	59
177	Conformation-Dependent Interactions Between HIV-1 Envelope Glycoproteins and Broadly Neutralizing Antibodies. <i>AIDS Research and Human Retroviruses</i> , 2018, 34, 794-803.	0.5	19
178	HIV-1 gp41 Residues Modulate CD4-Induced Conformational Changes in the Envelope Glycoprotein and Evolution of a Relaxed Conformation of gp120. <i>Journal of Virology</i> , 2018, 92, .	1.5	18
179	Production of complex viral glycoproteins in plants as vaccine immunogens. <i>Plant Biotechnology Journal</i> , 2018, 16, 1531-1545.	4.1	65
180	Human Immunodeficiency Virus Vaccines. , 2018, , 400-429.e25.		0
181	Antibody Lineages with Vaccine-Induced Antigen-Binding Hotspots Develop Broad HIV Neutralization. <i>Cell</i> , 2019, 178, 567-584.e19.	13.5	106

#	ARTICLE	IF	CITATIONS
182	Near full genome characterization of HIV-1 unique recombinant forms in Cameroon reveals dominant CRF02_AG and F2 recombination patterns. <i>Journal of the International AIDS Society</i> , 2019, 22, e25362.	1.2	7
183	The Glycosylation Site of Myelin Oligodendrocyte Glycoprotein Affects Autoantibody Recognition in a Large Proportion of Patients. <i>Frontiers in Immunology</i> , 2019, 10, 1189.	2.2	15
184	Antibody responses to the HIV-1 envelope high mannose patch. <i>Advances in Immunology</i> , 2019, 143, 11-73.	1.1	22
185	Harnessing Avidity: Quantifying the Entropic and Energetic Effects of Linker Length and Rigidity for Multivalent Binding of Antibodies to HIV-1. <i>Cell Systems</i> , 2019, 9, 466-474.e7.	2.9	20
186	Structural Basis for Broad HIV-1 Neutralization by the MPER-Specific Human Broadly Neutralizing Antibody LN01. <i>Cell Host and Microbe</i> , 2019, 26, 623-637.e8.	5.1	56
187	Development of Protein- and Peptide-Based HIV Entry Inhibitors Targeting gp120 or gp41. <i>Viruses</i> , 2019, 11, 705.	1.5	30
188	Peptide-Based Vaccination for Antibody Responses Against HIV. <i>Vaccines</i> , 2019, 7, 105.	2.1	17
189	Neutralization-guided design of HIV-1 envelope trimers with high affinity for the unmutated common ancestor of CH235 lineage CD4bs broadly neutralizing antibodies. <i>PLoS Pathogens</i> , 2019, 15, e1008026.	2.1	56
190	An Antigenic Atlas of HIV-1 Escape from Broadly Neutralizing Antibodies Distinguishes Functional and Structural Epitopes. <i>Immunity</i> , 2019, 50, 520-532.e3.	6.6	81
191	Exploitation of glycosylation in enveloped virus pathobiology. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1480-1497.	1.1	383
192	Broad and Potent Neutralizing Antibodies Recognize the Silent Face of the HIV Envelope. <i>Immunity</i> , 2019, 50, 1513-1529.e9.	6.6	85
193	Conformational Plasticity in the HIV-1 Fusion Peptide Facilitates Recognition by Broadly Neutralizing Antibodies. <i>Cell Host and Microbe</i> , 2019, 25, 873-883.e5.	5.1	42
194	The Chimpanzee SIV Envelope Trimer: Structure and Deployment as an HIV Vaccine Template. <i>Cell Reports</i> , 2019, 27, 2426-2441.e6.	2.9	35
195	Protein and Glycan Mimicry in HIV Vaccine Design. <i>Journal of Molecular Biology</i> , 2019, 431, 2223-2247.	2.0	91
196	Antibody-Induced Internalization of HIV-1 Env Proteins Limits Surface Expression of the Closed Conformation of Env. <i>Journal of Virology</i> , 2019, 93, .	1.5	32
197	Characterization of HIV-1 Nucleoside-Modified mRNA Vaccines in Rabbits and Rhesus Macaques. <i>Molecular Therapy - Nucleic Acids</i> , 2019, 15, 36-47.	2.3	79
198	Broadly Neutralizing Antibodies against HIV: Back to Blood. <i>Trends in Molecular Medicine</i> , 2019, 25, 228-240.	3.5	19
199	Capturing the inherent structural dynamics of the HIV-1 envelope glycoprotein fusion peptide. <i>Nature Communications</i> , 2019, 10, 763.	5.8	30

#	ARTICLE	IF	CITATIONS
200	Selection of immunoglobulin elbow region mutations impacts interdomain conformational flexibility in HIV-1 broadly neutralizing antibodies. <i>Nature Communications</i> , 2019, 10, 654.	5.8	34
201	Glycan Microarrays as Chemical Tools for Identifying Glycan Recognition by Immune Proteins. <i>Frontiers in Chemistry</i> , 2019, 7, 833.	1.8	59
202	Neutralizing antibodies for HIV-1 prevention. <i>Current Opinion in HIV and AIDS</i> , 2019, 14, 318-324.	1.5	34
203	An HIV-1 Broadly Neutralizing Antibody from a Clade C-Infected Pediatric Elite Neutralizer Potently Neutralizes the Contemporaneous and Autologous Evolving Viruses. <i>Journal of Virology</i> , 2019, 93, .	1.5	42
204	Translating Glycan Analytical Applications into Clinical Strategies for Ovarian Cancer. <i>Proteomics - Clinical Applications</i> , 2019, 13, e1800099.	0.8	14
205	Functional and Protective Role of Neutralizing Antibodies (NAbs) Against Viral Infections. , 2019, , 83-93.		5
206	Systematic Interaction Analysis of Anti-Human Immunodeficiency Virus Type-1 Neutralizing Antibodies with High Mannose Glycans Using Fragment Molecular Orbital and Molecular Dynamics Methods. <i>Journal of Computational Chemistry</i> , 2020, 41, 31-42.	1.5	3
207	Broadly neutralizing antibodies and vaccine design against HIV-1 infection. <i>Frontiers of Medicine</i> , 2020, 14, 30-42.	1.5	24
208	Neutralizing Antibody Responses Induced by HIV-1 Envelope Glycoprotein SOSIP Trimers Derived from Elite Neutralizers. <i>Journal of Virology</i> , 2020, 94, .	1.5	11
209	Antibody Neutralization of HIV-1 Crossing the Blood-Brain Barrier. <i>MBio</i> , 2020, 11, .	1.8	9
210	Insights into Antibody-Carbohydrate Recognition from Neoglycoprotein Microarrays. <i>ACS Symposium Series</i> , 2020, , 23-37.	0.5	2
211	DNA adjuvant Amiloride conjunct long immunization interval promote higher antibody responses to HIV-1 gp41 and gp140 immunogens. <i>Vaccine</i> , 2020, 38, 7445-7454.	1.7	0
212	Broadly Neutralizing Antibodies to Highly Antigenically Variable Viruses as Templates for Vaccine Design. <i>Current Topics in Microbiology and Immunology</i> , 2020, 428, 31-87.	0.7	0
213	Glycan Positioning Impacts HIV-1 Env Glycan-Shield Density, Function, and Recognition by Antibodies. <i>IScience</i> , 2020, 23, 101711.	1.9	4
214	Automated Design by Structure-Based Stabilization and Consensus Repair to Achieve Prefusion-Closed Envelope Trimers in a Wide Variety of HIV Strains. <i>Cell Reports</i> , 2020, 33, 108432.	2.9	32
215	Conjugation of Native-Like HIV-1 Envelope Trimers onto Liposomes Using EDC/Sulfo-NHS Chemistry: Requirements and Limitations. <i>Pharmaceutics</i> , 2020, 12, 979.	2.0	12
216	Vaccination Strategies Against Highly Variable Pathogens. <i>Current Topics in Microbiology and Immunology</i> , 2020, , .	0.7	1
217	Probing the Structure of the HIV-1 Envelope Trimer Using Aspartate Scanning Mutagenesis. <i>Journal of Virology</i> , 2020, 94, .	1.5	4

#	ARTICLE	IF	CITATIONS
218	Primary HIV-1 and Infectious Molecular Clones Are Differentially Susceptible to Broadly Neutralizing Antibodies. <i>Vaccines</i> , 2020, 8, 782.	2.1	0
219	Quantification of the Resilience and Vulnerability of HIV-1 Native Glycan Shield at Atomistic Detail. <i>IScience</i> , 2020, 23, 101836.	1.9	11
220	Predicting Antibody Neutralization Efficacy in Hypermutated Epitopes Using Monte Carlo Simulations. <i>Polymers</i> , 2020, 12, 2392.	2.0	0
221	When two are better than one: Modeling the mechanisms of antibody mixtures. <i>PLoS Computational Biology</i> , 2020, 16, e1007830.	1.5	11
222	Innovations in structure-based antigen design and immune monitoring for next generation vaccines. <i>Current Opinion in Immunology</i> , 2020, 65, 50-56.	2.4	43
223	A de novo approach to inferring within-host fitness effects during untreated HIV-1 infection. <i>PLoS Pathogens</i> , 2020, 16, e1008171.	2.1	4
224	Networks of HIV-1 Envelope Glycans Maintain Antibody Epitopes in the Face of Glycan Additions and Deletions. <i>Structure</i> , 2020, 28, 897-909.e6.	1.6	46
225	Development of Antibodies with Broad Neutralization Specificities against HIV-1 after Long Term SHIV Infection in Macaques. <i>Viruses</i> , 2020, 12, 163.	1.5	6
226	Autologous Antibody Responses to an HIV Envelope Glycan Hole Are Not Easily Broadened in Rabbits. <i>Journal of Virology</i> , 2020, 94, .	1.5	57
227	Targeting the N332-supersite of the HIV-1 envelope for vaccine design. <i>Expert Opinion on Therapeutic Targets</i> , 2020, 24, 499-509.	1.5	10
228	Loss of Nef-mediated CD3 down-regulation in the HIV-1 lineage increases viral infectivity and spread. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7382-7391.	3.3	8
229	Promise and Progress of an HIV-1 Cure by Adeno-Associated Virus Vector Delivery of Anti-HIV-1 Biologics. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 176.	1.8	22
230	VSV-Displayed HIV-1 Envelope Identifies Broadly Neutralizing Antibodies Class-Switched to IgG and IgA. <i>Cell Host and Microbe</i> , 2020, 27, 963-975.e5.	5.1	23
231	Development of a 3Mut-Apex-Stabilized Envelope Trimer That Expands HIV-1 Neutralization Breadth When Used To Boost Fusion Peptide-Directed Vaccine-Elicited Responses. <i>Journal of Virology</i> , 2020, 94, .	1.5	21
232	Design and characterization of a germ-line targeting soluble, native-like, trimeric HIV-1 Env lacking key glycans from the V1V2-loop. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129733.	1.1	2
233	Highly Mutated Antibodies Capable of Neutralizing N276-Glycan Deficient HIV after a Single Immunization with an Env Trimer. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
234	HIV vaccinology: 2021 update. <i>Seminars in Immunology</i> , 2021, 51, 101470.	2.7	31
235	A matrix of structure-based designs yields improved VRC01-class antibodies for HIV-1 therapy and prevention. <i>MAbs</i> , 2021, 13, 1946918.	2.6	11

#	ARTICLE	IF	CITATIONS
236	Glycan Cluster Shielding and Antibody Epitopes on Lassa Virus Envelop Protein. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2089-2097.	1.2	6
238	Fusion peptide priming reduces immune responses to HIV-1 envelope trimer base. <i>Cell Reports</i> , 2021, 35, 108937.	2.9	12
239	Glycans of SARS-CoV-2 Spike Protein in Virus Infection and Antibody Production. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 629873.	1.6	71
240	Glycans in Immunologic Health and Disease. <i>Annual Review of Immunology</i> , 2021, 39, 511-536.	9.5	24
241	HIV envelope tail truncation confers resistance to SERINC5 restriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	13
242	Development of a VRC01-class germline targeting immunogen derived from anti-idiotypic antibodies. <i>Cell Reports</i> , 2021, 35, 109084.	2.9	7
243	Glycans in Virus-Host Interactions: A Structural Perspective. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 666756.	1.6	19
244	A diverse collection of B cells responded to HIV infection in infant BG505. <i>Cell Reports Medicine</i> , 2021, 2, 100314.	3.3	6
245	Broadly neutralizing antibody responses in the longitudinal primary HIV-1 infection SPARTAC cohort. <i>Aids</i> , 2021, Publish Ahead of Print, 2073-2084.	1.0	0
246	Employing Broadly Neutralizing Antibodies as a Human Immunodeficiency Virus Prophylactic & Therapeutic Application. <i>Frontiers in Immunology</i> , 2021, 12, 697683.	2.2	2
247	Differential expression of HIV envelope epitopes on the surface of HIV-Infected macrophages and CD4+ T cells. <i>Antiviral Research</i> , 2021, 191, 105085.	1.9	3
248	Immunogenicity Evaluation of N-Glycans Recognized by HIV Broadly Neutralizing Antibodies. <i>ACS Chemical Biology</i> , 2021, 16, 2016-2025.	1.6	2
249	Antibodies from Rabbits Immunized with HIV-1 Clade B SOSIP Trimers Can Neutralize Multiple Clade B Viruses by Destabilizing the Envelope Glycoprotein. <i>Journal of Virology</i> , 2021, 95, e0009421.	1.5	5
250	Antibody responses induced by SHIV infection are more focused than those induced by soluble native HIV-1 envelope trimers in non-human primates. <i>PLoS Pathogens</i> , 2021, 17, e1009736.	2.1	18
252	Quantitative analyses reveal distinct sensitivities of the capture of HIV-1 primary viruses and pseudoviruses to broadly neutralizing antibodies. <i>Virology</i> , 2017, 508, 188-198.	1.1	7
253	Targeting Glycans of HIV Envelope Glycoproteins for Vaccine Design. <i>Chemical Biology</i> , 2017, , 300-357.	0.1	4
257	Fine epitope signature of antibody neutralization breadth at the HIV-1 envelope CD4-binding site. <i>JCI Insight</i> , 2018, 3, .	2.3	16
258	Glycan-dependent HIV-specific neutralizing antibodies bind to cells of uninfected individuals. <i>Journal of Clinical Investigation</i> , 2019, 129, 4832-4837.	3.9	11

#	ARTICLE	IF	CITATIONS
259	Improved killing of HIV-infected cells using three neutralizing and non-neutralizing antibodies. <i>Journal of Clinical Investigation</i> , 2020, 130, 5157-5170.	3.9	22
260	The role of N -glycans of HIV-1 gp41 in virus infectivity and susceptibility to the suppressive effects of carbohydrate-binding agents. <i>Retrovirology</i> , 2014, 11, 107.	0.9	5
261	An Efficiently Cleaved HIV-1 Clade C Env Selectively Binds to Neutralizing Antibodies. <i>PLoS ONE</i> , 2015, 10, e0122443.	1.1	16
262	Characterization of a Large Panel of Rabbit Monoclonal Antibodies against HIV-1 gp120 and Isolation of Novel Neutralizing Antibodies against the V3 Loop. <i>PLoS ONE</i> , 2015, 10, e0128823.	1.1	9
263	Antigenic characterization of the human immunodeficiency virus (HIV-1) envelope glycoprotein precursor incorporated into nanodiscs. <i>PLoS ONE</i> , 2017, 12, e0170672.	1.1	10
264	Differentiating founder and chronic HIV envelope sequences. <i>PLoS ONE</i> , 2017, 12, e0171572.	1.1	3
265	HIV-1-neutralizing antibody induced by simian adenovirus- and poxvirus MVA-vectored BG505 native-like envelope trimers. <i>PLoS ONE</i> , 2017, 12, e0181886.	1.1	16
266	Characterization of broadly neutralizing antibody responses to HIV-1 in a cohort of long term non-progressors. <i>PLoS ONE</i> , 2018, 13, e0193773.	1.1	24
267	Broadly Neutralizing Antibody Responses in a Large Longitudinal Sub-Saharan HIV Primary Infection Cohort. <i>PLoS Pathogens</i> , 2016, 12, e1005369.	2.1	241
268	Structure and Recognition of a Novel HIV-1 gp120-gp41 Interface Antibody that Caused MPER Exposure through Viral Escape. <i>PLoS Pathogens</i> , 2017, 13, e1006074.	2.1	33
269	Experimental Estimation of the Effects of All Amino-Acid Mutations to HIV's Envelope Protein on Viral Replication in Cell Culture. <i>PLoS Pathogens</i> , 2016, 12, e1006114.	2.1	96
270	Targeted N-glycan deletion at the receptor-binding site retains HIV Env NFL trimer integrity and accelerates the elicited antibody response. <i>PLoS Pathogens</i> , 2017, 13, e1006614.	2.1	58
271	Signal peptide of HIV-1 envelope modulates glycosylation impacting exposure of V1V2 and other epitopes. <i>PLoS Pathogens</i> , 2020, 16, e1009185.	2.1	14
272	Broadly Neutralizing Antibodies against HIV-1 As a Novel Aspect of the Immune Response. <i>Acta Naturae</i> , 2015, 7, 11-21.	1.7	19
273	Tailored design of protein nanoparticle scaffolds for multivalent presentation of viral glycoprotein antigens. <i>ELife</i> , 2020, 9, .	2.8	123
281	In silico Identification of High-Affinity Ligands of the Hiv-1 Gp120 Protein, Potential Peptidomimetics of Neutralizing Antibody N6. <i>Mathematical Biology and Bioinformatics</i> , 2019, 14, 430-449.	0.1	2
286	A site of vulnerability at V3 crown defined by HIV-1 bNAb M4008_N1. <i>Nature Communications</i> , 2021, 12, 6464.	5.8	2
287	Broadly Neutralizing Antibodies against HIV-1 As a Novel Aspect of the Immune Response. <i>Acta Naturae</i> , 2015, 7, 11-21.	1.7	12

#	ARTICLE	IF	CITATIONS
288	Algal and Cyanobacterial Lectins and Their Antimicrobial Properties. <i>Marine Drugs</i> , 2021, 19, 687.	2.2	8
289	A Conserved Tryptophan in the Envelope Cytoplasmic Tail Regulates HIV-1 Assembly and Spread. <i>Viruses</i> , 2022, 14, 129.	1.5	4
290	Nanodisc-Mediated Conversion of Virustatic Antiviral Antibody to Disrupt Virus Envelope in Infected Cells. <i>Small Methods</i> , 2022, 6, e2101516.	4.6	4
291	Cryo-ET of Env on intact HIV virions reveals structural variation and positioning on the Gag lattice. <i>Cell</i> , 2022, 185, 641-653.e17.	13.5	50
292	Induction of tier-2 neutralizing antibodies in mice with a DNA-encoded HIV envelope native like trimer. <i>Nature Communications</i> , 2022, 13, 695.	5.8	2
294	Analysis of B Cell Receptor Repertoires Reveals Key Signatures of the Systemic B Cell Response after SARS-CoV-2 Infection. <i>Journal of Virology</i> , 2022, 96, JVI0160021.	1.5	24
295	Cross-reactivity of glycan-reactive HIV-1 broadly neutralizing antibodies with parasite glycans. <i>Cell Reports</i> , 2022, 38, 110611.	2.9	3
296	Highly mutated antibodies capable of neutralizing N276 glycan-deficient HIV after a single immunization with an Env trimer. <i>Cell Reports</i> , 2022, 38, 110485.	2.9	4
297	Structure-guided changes at the V2 apex of HIV-1 clade C trimer enhance elicitation of autologous neutralizing and broad V1V2-scaffold antibodies. <i>Cell Reports</i> , 2022, 38, 110436.	2.9	6
298	Glycans in HIV-1 vaccine design “engaging the shield”. <i>Trends in Microbiology</i> , 2022, 30, 866-881.	3.5	7
300	Small-molecule HIV-1 entry inhibitors targeting the epitopes of broadly neutralizing antibodies. <i>Cell Chemical Biology</i> , 2022, 29, 757-773.	2.5	4
301	Antigenic analysis of the HIV-1 envelope trimer implies small differences between structural states 1 and 2. <i>Journal of Biological Chemistry</i> , 2022, 298, 101819.	1.6	9
302	Dichotomy in Neutralizing Antibody Induction to Peptide-Conjugated Vaccine in Squalene Emulsion Contrast With Aluminum Hydroxide Formulation. <i>Frontiers in Immunology</i> , 2022, 13, 848571.	2.2	1
303	Characterization of Glycosylation-Specific Systemic and Mucosal IgA Antibody Responses to <i>Escherichia coli</i> Mucinase YghJ (SslE). <i>Frontiers in Immunology</i> , 2021, 12, 760135.	2.2	2
304	Conserved topology of virus glycoepitopes presents novel targets for repurposing HIV antibody 2G12. <i>Scientific Reports</i> , 2022, 12, 2594.	1.6	3
305	Antibody Light Chains: Key to Increased Monoclonal Antibody Yields in Expi293 Cells?. <i>Antibodies</i> , 2022, 11, 37.	1.2	1
306	Conjugation of a Toll-Like Receptor Agonist to Glycans of an HIV Native-Like Envelope Trimer Preserves Neutralization Epitopes. <i>ChemBioChem</i> , 2022, 23, .	1.3	4
310	Human immunoglobulin repertoire analysis guides design of vaccine priming immunogens targeting HIV V2-apex broadly neutralizing antibody precursors. <i>Immunity</i> , 2022, 55, 2149-2167.e9.	6.6	21

#	ARTICLE	IF	CITATIONS
311	Adjuvants influence the maturation of VRC01-like antibodies during immunization. <i>IScience</i> , 2022, 25, 105473.	1.9	0
312	HIV Co-Receptor Usage, Broadly Neutralising Antibodies, and Treatment. <i>European Medical Journal Allergy & Immunology</i> , 0, , 117-125.	0.0	0
313	HIV-1 Vpu restricts Fc-mediated effector functions in vivo. <i>Cell Reports</i> , 2022, 41, 111624.	2.9	8
314	Small CD4 mimetics sensitize HIV-1-infected macrophages to antibody-dependent cellular cytotoxicity. <i>Cell Reports</i> , 2023, 42, 111983.	2.9	5
317	Single-component multilayered self-assembling protein nanoparticles presenting glycan-trimmed uncleaved prefusion optimized envelope trimers as HIV-1 vaccine candidates. <i>Nature Communications</i> , 2023, 14, .	5.8	14
318	Application of germline antibody features to vaccine development, antibody discovery, antibody optimization and disease diagnosis. <i>Biotechnology Advances</i> , 2023, 65, 108143.	6.0	4
319	An Overview of Human Anti-HIV-1 Neutralizing Antibodies against Diverse Epitopes of HIV-1. <i>ACS Omega</i> , 2023, 8, 7252-7261.	1.6	8