

Barton F Haynes

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260
papers

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71
h-index

143
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277
ext. papers

26,348
ext. citations

14.8
avg, IF

6.74
L-index

#	Paper	IF	Citations
260	Changes in thymic function with age and during the treatment of HIV infection. <i>Nature</i> , 1998 , 396, 690-5	50.4	1587
259	Identification and characterization of transmitted and early founder virus envelopes in primary HIV-1 infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7552-7	11.5	1472
258	Immune-correlates analysis of an HIV-1 vaccine efficacy trial. <i>New England Journal of Medicine</i> , 2012 , 366, 1275-86	59.2	1400
257	Co-evolution of a broadly neutralizing HIV-1 antibody and founder virus. <i>Nature</i> , 2013 , 496, 469-76	50.4	759
256	Cardiolipin polyspecific autoreactivity in two broadly neutralizing HIV-1 antibodies. <i>Science</i> , 2005 , 308, 1906-8	33.3	612
255	Genetic identity, biological phenotype, and evolutionary pathways of transmitted/founder viruses in acute and early HIV-1 infection. <i>Journal of Experimental Medicine</i> , 2009 , 206, 1273-89	16.6	600
254	Structure and immune recognition of trimeric pre-fusion HIV-1 Env. <i>Nature</i> , 2014 , 514, 455-61	50.4	576
253	Zika virus protection by a single low-dose nucleoside-modified mRNA vaccination. <i>Nature</i> , 2017 , 543, 248-251	50.4	502
252	Initial B-cell responses to transmitted human immunodeficiency virus type 1: virion-binding immunoglobulin M (IgM) and IgG antibodies followed by plasma anti-gp41 antibodies with ineffective control of initial viremia. <i>Journal of Virology</i> , 2008 , 82, 12449-63	6.6	452
251	The role of the thymus in immune reconstitution in aging, bone marrow transplantation, and HIV-1 infection. <i>Annual Review of Immunology</i> , 2000 , 18, 529-60	34.7	397
250	HIV-1 neutralizing antibodies: understanding nature's pathways. <i>Immunological Reviews</i> , 2013 , 254, 225-44	44.3	368
249	B-cell-lineage immunogen design in vaccine development with HIV-1 as a case study. <i>Nature Biotechnology</i> , 2012 , 30, 423-33	44.5	351
248	Analysis of a clonal lineage of HIV-1 envelope V2/V3 conformational epitope-specific broadly neutralizing antibodies and their inferred unmutated common ancestors. <i>Journal of Virology</i> , 2011 , 85, 9998-10009	6.6	342
247	Vaccine induction of antibodies against a structurally heterogeneous site of immune pressure within HIV-1 envelope protein variable regions 1 and 2. <i>Immunity</i> , 2013 , 38, 176-86	32.3	319
246	Multidonor analysis reveals structural elements, genetic determinants, and maturation pathway for HIV-1 neutralization by VRC01-class antibodies. <i>Immunity</i> , 2013 , 39, 245-58	32.3	254
245	SARS-CoV-2 variant B.1.1.7 is susceptible to neutralizing antibodies elicited by ancestral spike vaccines. <i>Cell Host and Microbe</i> , 2021 , 29, 529-539.e3	23.4	225
244	Structural Repertoire of HIV-1-Neutralizing Antibodies Targeting the CD4 Supersite in 14 Donors. <i>Cell</i> , 2015 , 161, 1280-92	56.2	219

243	Cooperation of B cell lineages in induction of HIV-1-broadly neutralizing antibodies. <i>Cell</i> , 2014 , 158, 481-91	36.2	213
242	Nucleoside-modified mRNA vaccines induce potent T follicular helper and germinal center B cell responses. <i>Journal of Experimental Medicine</i> , 2018 , 215, 1571-1588	16.6	212
241	Maturation Pathway from Germline to Broad HIV-1 Neutralizer of a CD4-Mimic Antibody. <i>Cell</i> , 2016 , 165, 449-63	56.2	209
240	Enhanced potency of a broadly neutralizing HIV-1 antibody in vitro improves protection against lentiviral infection in vivo. <i>Journal of Virology</i> , 2014 , 88, 12669-82	6.6	198
239	D614G Spike Mutation Increases SARS CoV-2 Susceptibility to Neutralization. <i>Cell Host and Microbe</i> , 2021 , 29, 23-31.e4	23.4	198
238	Human responses to influenza vaccination show seroconversion signatures and convergent antibody rearrangements. <i>Cell Host and Microbe</i> , 2014 , 16, 105-14	23.4	192
237	Human T lymphocyte antigens as defined by monoclonal antibodies. <i>Immunological Reviews</i> , 1981 , 57, 127-61	11.3	185
236	High-throughput isolation of immunoglobulin genes from single human B cells and expression as monoclonal antibodies. <i>Journal of Virological Methods</i> , 2009 , 158, 171-9	2.6	181
235	Immunohistologic analysis of the distribution of cell adhesion molecules within the inflammatory synovial microenvironment. <i>Arthritis and Rheumatism</i> , 1989 , 32, 22-30		180
234	Initial antibodies binding to HIV-1 gp41 in acutely infected subjects are polyreactive and highly mutated. <i>Journal of Experimental Medicine</i> , 2011 , 208, 2237-49	16.6	166
233	Latency reversal and viral clearance to cure HIV-1. <i>Science</i> , 2016 , 353, aaf6517	33.3	159
232	New Member of the V1V2-Directed CAP256-VRC26 Lineage That Shows Increased Breadth and Exceptional Potency. <i>Journal of Virology</i> , 2016 , 90, 76-91	6.6	151
231	HIV-1 VACCINES. Diversion of HIV-1 vaccine-induced immunity by gp41-microbiota cross-reactive antibodies. <i>Science</i> , 2015 , 349, aab1253	33.3	144
230	Autoreactivity in an HIV-1 broadly reactive neutralizing antibody variable region heavy chain induces immunologic tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 181-6	11.5	144
229	Immune correlates of vaccine protection against HIV-1 acquisition. <i>Science Translational Medicine</i> , 2015 , 7, 310rv7	17.5	142
228	Measurement of an adhesion molecule as an indicator of inflammatory disease activity. Up-regulation of the receptor for hyaluronate (CD44) in rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 1991 , 34, 1434-43		142
227	HIV-1 vaccine-induced C1 and V2 Env-specific antibodies synergize for increased antiviral activities. <i>Journal of Virology</i> , 2014 , 88, 7715-26	6.6	140
226	Envelope residue 375 substitutions in simian-human immunodeficiency viruses enhance CD4 binding and replication in rhesus macaques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3413-22	11.5	132

225	Two distinct broadly neutralizing antibody specificities of different clonal lineages in a single HIV-1-infected donor: implications for vaccine design. <i>Journal of Virology</i> , 2012 , 86, 4688-92	6.6	132
224	A Single Immunization with Nucleoside-Modified mRNA Vaccines Elicits Strong Cellular and Humoral Immune Responses against SARS-CoV-2 in Mice. <i>Immunity</i> , 2020 , 53, 724-732.e7	32.3	132
223	Induction of HIV Neutralizing Antibody Lineages in Mice with Diverse Precursor Repertoires. <i>Cell</i> , 2016 , 166, 1471-1484.e18	56.2	132
222	Staged induction of HIV-1 glycan-dependent broadly neutralizing antibodies. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	127
221	Structures of HIV-1 Env V1V2 with broadly neutralizing antibodies reveal commonalities that enable vaccine design. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 81-90	17.6	126
220	Quantification of the Impact of the HIV-1-Glycan Shield on Antibody Elicitation. <i>Cell Reports</i> , 2017 , 19, 719-732	10.6	123
219	Polyreactivity and autoreactivity among HIV-1 antibodies. <i>Journal of Virology</i> , 2015 , 89, 784-98	6.6	123
218	Glycosylation site-specific analysis of HIV envelope proteins (JR-FL and CON-S) reveals major differences in glycosylation site occupancy, glycoform profiles, and antigenic epitopesQ accessibility. <i>Journal of Proteome Research</i> , 2008 , 7, 1660-74	5.6	123
217	Isolation of a human anti-HIV gp41 membrane proximal region neutralizing antibody by antigen-specific single B cell sorting. <i>PLoS ONE</i> , 2011 , 6, e23532	3.7	123
216	D614G Mutation Alters SARS-CoV-2 Spike Conformation and Enhances Protease Cleavage at the S1/S2 Junction. <i>Cell Reports</i> , 2021 , 34, 108630	10.6	123
215	Antibody polyspecificity and neutralization of HIV-1: A hypothesis. <i>Human Antibodies</i> , 2006 , 14, 59-67	1.3	120
214	Ontogeny of the human thymus during fetal development. <i>Journal of Clinical Immunology</i> , 1987 , 7, 81-97.7		119
213	Viral receptor-binding site antibodies with diverse germline origins. <i>Cell</i> , 2015 , 161, 1026-1034	56.2	114
212	Potent immune responses in rhesus macaques induced by nonviral delivery of a self-amplifying RNA vaccine expressing HIV type 1 envelope with a cationic nanoemulsion. <i>Journal of Infectious Diseases</i> , 2015 , 211, 947-55	7	111
211	Human Non-neutralizing HIV-1 Envelope Monoclonal Antibodies Limit the Number of Founder Viruses during SHIV Mucosal Infection in Rhesus Macaques. <i>PLoS Pathogens</i> , 2015 , 11, e1005042	7.6	111
210	HIV-Host Interactions: Implications for Vaccine Design. <i>Cell Host and Microbe</i> , 2016 , 19, 292-303	23.4	108
209	The human thymus during aging. <i>Immunologic Research</i> , 2000 , 22, 253-61	4.3	108
208	Antibody polyspecificity and neutralization of HIV-1: a hypothesis. <i>Human Antibodies</i> , 2005 , 14, 59-67	1.3	103

207	Antibody-virus co-evolution in HIV infection: paths for HIV vaccine development. <i>Immunological Reviews</i> , 2017 , 275, 145-160	11.3	102
206	Immunoglobulin gene insertions and deletions in the affinity maturation of HIV-1 broadly reactive neutralizing antibodies. <i>Cell Host and Microbe</i> , 2014 , 16, 304-13	23.4	99
205	Prospects for a safe COVID-19 vaccine. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	99
204	Pentavalent HIV-1 vaccine protects against simian-human immunodeficiency virus challenge. <i>Nature Communications</i> , 2017 , 8, 15711	17.4	94
203	Resistance to type 1 interferons is a major determinant of HIV-1 transmission fitness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E590-E599	11.5	92
202	CD4 mimetics sensitize HIV-1-infected cells to ADCC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E2687-94	11.5	89
201	In vitro and in vivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. <i>Cell</i> , 2021 , 184, 4203-4219.e32	56.2	89
200	Potent and broad HIV-neutralizing antibodies in memory B cells and plasma. <i>Science Immunology</i> , 2017 , 2,	28	86
199	Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. <i>Nature</i> , 2021 , 594, 553-559	30.4	85
198	Immune perturbations in HIV-1-infected individuals who make broadly neutralizing antibodies. <i>Science Immunology</i> , 2016 , 1, aag0851	28	82
197	Glycosylation site-specific analysis of clade C HIV-1 envelope proteins. <i>Journal of Proteome Research</i> , 2009 , 8, 4231-42	5.6	82
196	HIV-1 envelope gp41 antibodies can originate from terminal ileum B cells that share cross-reactivity with commensal bacteria. <i>Cell Host and Microbe</i> , 2014 , 16, 215-226	23.4	81
195	Aiming to induce broadly reactive neutralizing antibody responses with HIV-1 vaccine candidates. <i>Expert Review of Vaccines</i> , 2006 , 5, 579-95	5.2	81
194	Multiple roles for HIV broadly neutralizing antibodies. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	77
193	Reconstructing a B-Cell Clonal Lineage. II. Mutation, Selection, and Affinity Maturation. <i>Frontiers in Immunology</i> , 2014 , 5, 170	8.4	77
192	Influenza immunization elicits antibodies specific for an egg-adapted vaccine strain. <i>Nature Medicine</i> , 2016 , 22, 1465-1469	50.5	73
191	Route of immunization defines multiple mechanisms of vaccine-mediated protection against SIV. <i>Nature Medicine</i> , 2018 , 24, 1590-1598	50.5	73
190	The quest for an antibody-based HIV vaccine. <i>Immunological Reviews</i> , 2017 , 275, 5-10	11.3	71

189	Genetic signatures in the envelope glycoproteins of HIV-1 that associate with broadly neutralizing antibodies. <i>PLoS Computational Biology</i> , 2010 , 6, e1000955	5	71
188	Pandemic Preparedness: Developing Vaccines and Therapeutic Antibodies For COVID-19. <i>Cell</i> , 2020 , 181, 1458-1463	56.2	70
187	New approaches to HIV vaccine development. <i>Current Opinion in Immunology</i> , 2015 , 35, 39-47	7.8	70
186	Aiming to induce broadly reactive neutralizing antibody responses with HIV-1 vaccine candidates. <i>Expert Review of Vaccines</i> , 2006 , 5, 347-63	5.2	69
185	Developing an HIV vaccine. <i>Science</i> , 2017 , 355, 1129-1130	33.3	68
184	Vaccine Induction of Heterologous Tier 2 HIV-1 Neutralizing Antibodies in Animal Models. <i>Cell Reports</i> , 2017 , 21, 3681-3690	10.6	67
183	Glycosylation Benchmark Profile for HIV-1 Envelope Glycoprotein Production Based on Eleven Env Trimers. <i>Journal of Virology</i> , 2017 , 91,	6.6	65
182	Initiation of immune tolerance-controlled HIV gp41 neutralizing B cell lineages. <i>Science Translational Medicine</i> , 2016 , 8, 336ra62	17.5	65
181	Recognition of synthetic glycopeptides by HIV-1 broadly neutralizing antibodies and their unmutated ancestors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18214-9	11.5	65
180	Completeness of HIV-1 Envelope Glycan Shield at Transmission Determines Neutralization Breadth. <i>Cell Reports</i> , 2018 , 25, 893-908.e7	10.6	65
179	Affinity maturation in an HIV broadly neutralizing B-cell lineage through reorientation of variable domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10275-80	11.5	63
178	Comparison of HPLC/ESI-FTICR MS versus MALDI-TOF/TOF MS for glycopeptide analysis of a highly glycosylated HIV envelope glycoprotein. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 1209-20	3.5	63
177	Common tolerance mechanisms, but distinct cross-reactivities associated with gp41 and lipids, limit production of HIV-1 broad neutralizing antibodies 2F5 and 4E10. <i>Journal of Immunology</i> , 2013 , 191, 1260-75	5.3	62
176	Targeted selection of HIV-specific antibody mutations by engineering B cell maturation. <i>Science</i> , 2019 , 366,	33.3	60
175	Mimicry of an HIV broadly neutralizing antibody epitope with a synthetic glycopeptide. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	59
174	AIDS/HIV. Host controls of HIV neutralizing antibodies. <i>Science</i> , 2014 , 344, 588-9	33.3	58
173	The human thymus. A chimeric organ comprised of central and peripheral lymphoid components. <i>Immunologic Research</i> , 1998 , 18, 175-92	4.3	58
172	Critical issues in mucosal immunity for HIV-1 vaccine development. <i>Journal of Allergy and Clinical Immunology</i> , 2008 , 122, 3-9; quiz 10-1	11.5	56

171	HIV-1 Neutralizing Antibody Signatures and Application to Epitope-Targeted Vaccine Design. <i>Cell Host and Microbe</i> , 2019 , 25, 59-72.e8	23.4	56
170	Functional Relevance of Improbable Antibody Mutations for HIV Broadly Neutralizing Antibody Development. <i>Cell Host and Microbe</i> , 2018 , 23, 759-765.e6	23.4	55
169	Synovial microenvironment-T cell interactions. Human T cells bind to fibroblast-like synovial cells in vitro. <i>Arthritis and Rheumatism</i> , 1988 , 31, 947-55		55
168	Chemical synthesis of highly congested gp120 V1V2 N-glycopeptide antigens for potential HIV-1-directed vaccines. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13113-20	16.4	54
167	Host controls of HIV broadly neutralizing antibody development. <i>Immunological Reviews</i> , 2017 , 275, 79-88	21.3	53
166	Characterization of HIV-1 Nucleoside-Modified mRNA Vaccines in Rabbits and Rhesus Macaques. <i>Molecular Therapy - Nucleic Acids</i> , 2019 , 15, 36-47	10.7	53
165	Strain-Specific V3 and CD4 Binding Site Autologous HIV-1 Neutralizing Antibodies Select Neutralization-Resistant Viruses. <i>Cell Host and Microbe</i> , 2015 , 18, 354-62	23.4	53
164	Initiation of HIV neutralizing B cell lineages with sequential envelope immunizations. <i>Nature Communications</i> , 2017 , 8, 1732	17.4	52
163	Vaccine Elicitation of High Mannose-Dependent Neutralizing Antibodies against the V3-Glycan Broadly Neutralizing Epitope in Nonhuman Primates. <i>Cell Reports</i> , 2017 , 18, 2175-2188	10.6	50
162	Antibody light-chain-restricted recognition of the site of immune pressure in the RV144 HIV-1 vaccine trial is phylogenetically conserved. <i>Immunity</i> , 2014 , 41, 909-18	32.3	50
161	Isolation of a monoclonal antibody that targets the alpha-2 helix of gp120 and represents the initial autologous neutralizing-antibody response in an HIV-1 subtype C-infected individual. <i>Journal of Virology</i> , 2011 , 85, 7719-29	6.6	50
160	Progress in HIV-1 vaccine development. <i>Journal of Allergy and Clinical Immunology</i> , 2014 , 134, 3-10; quiz 11	11.5	49
159	Chimeric spike mRNA vaccines protect against Sarbecovirus challenge in mice. <i>Science</i> , 2021 , 373, 991-998	39.3	48
158	Tracking HIV-1 recombination to resolve its contribution to HIV-1 evolution in natural infection. <i>Nature Communications</i> , 2018 , 9, 1928	17.4	46
157	Structural Constraints of Vaccine-Induced Tier-2 Autologous HIV Neutralizing Antibodies Targeting the Receptor-Binding Site. <i>Cell Reports</i> , 2016 , 14, 43-54	10.6	45
156	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	6.6	45
155	Single-Cell Analysis of Quiescent HIV Infection Reveals Host Transcriptional Profiles that Regulate Proviral Latency. <i>Cell Reports</i> , 2018 , 25, 107-117.e3	10.6	45
154	High throughput functional analysis of HIV-1 env genes without cloning. <i>Journal of Virological Methods</i> , 2007 , 143, 104-11	2.6	44

153	Immunogenic Stimulus for Germline Precursors of Antibodies that Engage the Influenza Hemagglutinin Receptor-Binding Site. <i>Cell Reports</i> , 2015 , 13, 2842-50	10.6	43
152	Structure and Diversity of the Rhesus Macaque Immunoglobulin Loci through Multiple Genome Assemblies. <i>Frontiers in Immunology</i> , 2017 , 8, 1407	8.4	42
151	Progress in HIV-1 vaccine development. <i>Current Opinion in HIV and AIDS</i> , 2013 , 8, 326-32	4.2	42
150	RAB11FIP5 Expression and Altered Natural Killer Cell Function Are Associated with Induction of HIV Broadly Neutralizing Antibody Responses. <i>Cell</i> , 2018 , 175, 387-399.e17	56.2	42
149	Thymopoiesis in HIV-infected adults after highly active antiretroviral therapy. <i>AIDS Research and Human Retroviruses</i> , 2001 , 17, 1635-43	1.6	41
148	CD4-mimetic small molecules sensitize human immunodeficiency virus to vaccine-elicited antibodies. <i>Journal of Virology</i> , 2014 , 88, 6542-55	6.6	40
147	BCR and Endosomal TLR Signals Synergize to Increase AID Expression and Establish Central B Cell Tolerance. <i>Cell Reports</i> , 2017 , 18, 1627-1635	10.6	39
146	Longitudinal Analysis Reveals Early Development of Three MPER-Directed Neutralizing Antibody Lineages from an HIV-1-Infected Individual. <i>Immunity</i> , 2019 , 50, 677-691.e13	32.3	38
145	The human thymus. A chimeric organ comprised of central and peripheral lymphoid components. <i>Immunologic Research</i> , 1998 , 18, 61-78	4.3	38
144	Analysis of HIV-1 subtype B third variable region peptide motifs for induction of neutralizing antibodies against HIV-1 primary isolates. <i>Virology</i> , 2006 , 345, 44-55	3.6	37
143	Human erythrocyte antigens. III. Characterization of a panel of murine monoclonal antibodies that react with human erythrocyte and erythroid precursor membranes. <i>Vox Sanguinis</i> , 1987 , 52, 236-43	3.1	37
142	Comparison of Immunogenicity in Rhesus Macaques of Transmitted-Founder, HIV-1 Group M Consensus, and Trivalent Mosaic Envelope Vaccines Formulated as a DNA Prime, NYVAC, and Envelope Protein Boost. <i>Journal of Virology</i> , 2015 , 89, 6462-80	6.6	35
141	B cell responses to HIV-1 infection and vaccination: pathways to preventing infection. <i>Trends in Molecular Medicine</i> , 2011 , 17, 108-16	11.5	35
140	Cytokines and adhesion molecules in the pathogenesis of vasculitis. <i>Current Rheumatology Reports</i> , 2000 , 2, 402-10	4.9	34
139	Developmental Pathway of the MPER-Directed HIV-1-Neutralizing Antibody 10E8. <i>PLoS ONE</i> , 2016 , 11, e0157409	3.7	34
138	Cold sensitivity of the SARS-CoV-2 spike ectodomain. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 128-131	17.6	34
137	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	7.6	33
136	HIV-1 Envelope Glycoproteins from Diverse Clades Differentiate Antibody Responses and Durability among Vaccinees. <i>Journal of Virology</i> , 2018 , 92,	6.6	33

135	Conformational preferences of a chimeric peptide HIV-1 immunogen from the C4-V3 domains of gp120 envelope protein of HIV-1 CAN0A based on solution NMR: comparison to a related immunogenic peptide from HIV-1 RF. <i>Biochemistry</i> , 1996 , 35, 5158-65	3.2	32
134	Inference of the HIV-1 VRC01 Antibody Lineage Unmutated Common Ancestor Reveals Alternative Pathways to Overcome a Key Glycan Barrier. <i>Immunity</i> , 2018 , 49, 1162-1174.e8	32.3	32
133	Inhibitory Effect of Individual or Combinations of Broadly Neutralizing Antibodies and Antiviral Reagents against Cell-Free and Cell-to-Cell HIV-1 Transmission. <i>Journal of Virology</i> , 2015 , 89, 7813-28	6.6	31
132	Increase in TCR gamma delta T lymphocytes in synovia from rheumatoid arthritis patients with active synovitis. <i>Journal of Clinical Immunology</i> , 1992 , 12, 130-8	5.7	31
131	Vaccine induction of antibodies and tissue-resident CD8+ T cells enhances protection against mucosal SHIV-infection in young macaques. <i>JCI Insight</i> , 2019 , 4,	9.9	31
130	Influence of the Envelope gp120 Phe 43 Cavity on HIV-1 Sensitivity to Antibody-Dependent Cell-Mediated Cytotoxicity Responses. <i>Journal of Virology</i> , 2017 , 91,	6.6	30
129	Leukemia-associated arthritis: identification of leukemic cells in synovial fluid using monoclonal and polyclonal antibodies. <i>Arthritis and Rheumatism</i> , 1984 , 27, 1306-8		30
128	Neutralization Takes Precedence Over IgG or IgA Isotype-related Functions in Mucosal HIV-1 Antibody-mediated Protection. <i>EBioMedicine</i> , 2016 , 14, 97-111	8.8	29
127	SARS-CoV-2 variant B.1.1.7 is susceptible to neutralizing antibodies elicited by ancestral Spike vaccines 2021 ,		29
126	Amino Acid Changes in the HIV-1 gp41 Membrane Proximal Region Control Virus Neutralization Sensitivity. <i>EBioMedicine</i> , 2016 , 12, 196-207	8.8	28
125	IGHV1-69 B cell chronic lymphocytic leukemia antibodies cross-react with HIV-1 and hepatitis C virus antigens as well as intestinal commensal bacteria. <i>PLoS ONE</i> , 2014 , 9, e90725	3.7	28
124	Immunization with an SIV-based IDLV Expressing HIV-1 Env 1086 Clade C Elicits Durable Humoral and Cellular Responses in Rhesus Macaques. <i>Molecular Therapy</i> , 2016 , 24, 2021-2032	11.7	28
123	Antibodies Elicited by Multiple Envelope Glycoprotein Immunogens in Primates Neutralize Primary Human Immunodeficiency Viruses (HIV-1) Sensitized by CD4-Mimetic Compounds. <i>Journal of Virology</i> , 2016 , 90, 5031-5046	6.6	27
122	Contribution of proteasome-catalyzed peptide -splicing to viral targeting by CD8 T cells in HIV-1 infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 24748-24759	11.5	27
121	Consistent elicitation of cross-clade HIV-neutralizing responses achieved in guinea pigs after fusion peptide priming by repetitive envelope trimer boosting. <i>PLoS ONE</i> , 2019 , 14, e0215163	3.7	25
120	HIV-1-Specific IgA Monoclonal Antibodies from an HIV-1 Vaccinee Mediate Galactosylceramide Blocking and Phagocytosis. <i>Journal of Virology</i> , 2018 , 92,	6.6	25
119	Sequence intrinsic somatic mutation mechanisms contribute to affinity maturation of VRC01-class HIV-1 broadly neutralizing antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8614-8619	11.5	25
118	Generation and Characterization of a Bivalent HIV-1 Subtype C gp120 Protein Boost for Proof-of-Concept HIV Vaccine Efficacy Trials in Southern Africa. <i>PLoS ONE</i> , 2016 , 11, e0157391	3.7	25

117	SARS-CoV-2 Neutralizing Antibodies for COVID-19 Prevention and Treatment. <i>Annual Review of Medicine</i> , 2021 ,	17.4	25
116	Star nanoparticles delivering HIV-1 peptide minimal immunogens elicit near-native envelope antibody responses in nonhuman primates. <i>PLoS Biology</i> , 2019 , 17, e3000328	9.7	24
115	Disruption of the HIV-1 Envelope allosteric network blocks CD4-induced rearrangements. <i>Nature Communications</i> , 2020 , 11, 520	17.4	24
114	A CD4-mimetic compound enhances vaccine efficacy against stringent immunodeficiency virus challenge. <i>Nature Communications</i> , 2018 , 9, 2363	17.4	24
113	Difficult-to-neutralize global HIV-1 isolates are neutralized by antibodies targeting open envelope conformations. <i>Nature Communications</i> , 2019 , 10, 2898	17.4	24
112	Is developing an HIV-1 vaccine possible?. <i>Current Opinion in HIV and AIDS</i> , 2010 , 5, 362-7	4.2	24
111	Normalization of the peripheral blood T cell receptor V beta repertoire after cultured postnatal human thymic transplantation in DiGeorge syndrome. <i>Journal of Clinical Immunology</i> , 1997 , 17, 167-75	5.7	24
110	A broadly cross-reactive antibody neutralizes and protects against sarbecovirus challenge in mice. <i>Science Translational Medicine</i> , 2021 , eabj7125	17.5	24
109	Cross-reactive coronavirus antibodies with diverse epitope specificities and Fc effector functions. <i>Cell Reports Medicine</i> , 2021 , 2, 100313	18	24
108	HIV-1 envelope gp41 broadly neutralizing antibodies: hurdles for vaccine development. <i>PLoS Pathogens</i> , 2014 , 10, e1004073	7.6	23
107	Designing synthetic vaccines for HIV. <i>Expert Review of Vaccines</i> , 2015 , 14, 815-31	5.2	22
106	Aberrant B cell repertoire selection associated with HIV neutralizing antibody breadth. <i>Nature Immunology</i> , 2020 , 21, 199-209	19.1	22
105	Aggregate complexes of HIV-1 induced by multimeric antibodies. <i>Retrovirology</i> , 2014 , 11, 78	3.6	22
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