## Lawrence Shapiro

## List of Publications by Citations

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161 16,731 128 58 h-index g-index citations papers 6.58 20,904 175 17.3 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
161	Structural basis of cell-cell adhesion by cadherins. <i>Nature</i> , <b>1995</b> , 374, 327-37	50.4	1017
160	Antibody resistance of SARS-CoV-2 variants B.1.351 and B.1.1.7. <i>Nature</i> , <b>2021</b> , 593, 130-135	50.4	997
159	Structural basis for broad and potent neutralization of HIV-1 by antibody VRC01. <i>Science</i> , <b>2010</b> , 329, 811-7	33.3	871
158	Potent neutralizing antibodies against multiple epitopes on SARS-CoV-2 spike. <i>Nature</i> , <b>2020</b> , 584, 450-	45 <del>5</del> 60.4	848
157	Co-evolution of a broadly neutralizing HIV-1 antibody and founder virus. <i>Nature</i> , <b>2013</b> , 496, 469-76	50.4	759
156	Focused evolution of HIV-1 neutralizing antibodies revealed by structures and deep sequencing. <i>Science</i> , <b>2011</b> , 333, 1593-602	33.3	688
155	C-cadherin ectodomain structure and implications for cell adhesion mechanisms. <i>Science</i> , <b>2002</b> , 296, 13	0 <u>8</u> 313	546
154	Developmental pathway for potent V1V2-directed HIV-neutralizing antibodies. <i>Nature</i> , <b>2014</b> , 509, 55-6	<b>2</b> 50.4	537
153	Crystal structure of the extracellular domain from P0, the major structural protein of peripheral nerve myelin. <i>Neuron</i> , <b>1996</b> , 17, 435-49	13.9	360
152	Structure and biochemistry of cadherins and catenins. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2009</b> , 1, a003053	10.2	307
151	Structure-function analysis of cell adhesion by neural (N-) cadherin. <i>Neuron</i> , <b>1998</b> , 20, 1153-63	13.9	283
150	Molecular modification of N-cadherin in response to synaptic activity. <i>Neuron</i> , <b>2000</b> , 25, 93-107	13.9	282
149	Increased resistance of SARS-CoV-2 variant P.1 to antibody neutralization. <i>Cell Host and Microbe</i> , <b>2021</b> , 29, 747-751.e4	23.4	277
148	The extracellular architecture of adherens junctions revealed by crystal structures of type I cadherins. <i>Structure</i> , <b>2011</b> , 19, 244-56	5.2	273
147	Crystal structure, conformational fixation and entry-related interactions of mature ligand-free HIV-1 Env. <i>Nature Structural and Molecular Biology</i> , <b>2015</b> , 22, 522-31	17.6	254
146	Multidonor analysis reveals structural elements, genetic determinants, and maturation pathway for HIV-1 neutralization by VRC01-class antibodies. <i>Immunity</i> , <b>2013</b> , 39, 245-58	32.3	254
145	Thinking outside the cell: how cadherins drive adhesion. <i>Trends in Cell Biology</i> , <b>2012</b> , 22, 299-310	18.3	231

## (2007-2006)

144	Type II cadherin ectodomain structures: implications for classical cadherin specificity. <i>Cell</i> , <b>2006</b> , 124, 1255-68	56.2	225
143	Identification of a CD4-Binding-Site Antibody to HIV that Evolved Near-Pan Neutralization Breadth. <i>Immunity</i> , <b>2016</b> , 45, 1108-1121	32.3	224
142	Structural Repertoire of HIV-1-Neutralizing Antibodies Targeting the CD4 Supersite in 14 Donors. <i>Cell</i> , <b>2015</b> , 161, 1280-92	56.2	219
141	Vaccine-Induced Antibodies that Neutralize Group 1 and Group 2 Influenza A Viruses. <i>Cell</i> , <b>2016</b> , 166, 609-623	56.2	215
140	Potent SARS-CoV-2 neutralizing antibodies directed against spike N-terminal domain target a single supersite. <i>Cell Host and Microbe</i> , <b>2021</b> , 29, 819-833.e7	23.4	215
139	Maturation Pathway from Germline to Broad HIV-1 Neutralizer of a CD4-Mimic Antibody. <i>Cell</i> , <b>2016</b> , 165, 449-63	56.2	209
138	Enhanced potency of a broadly neutralizing HIV-1 antibody in vitro improves protection against lentiviral infection in vivo. <i>Journal of Virology</i> , <b>2014</b> , 88, 12669-82	6.6	198
137	The diversity of cadherins and implications for a synaptic adhesive code in the CNS. <i>Neuron</i> , <b>1999</b> , 23, 427-30	13.9	191
136	Maturation and Diversity of the VRC01-Antibody Lineage over 15 Years of Chronic HIV-1 Infection. <i>Cell</i> , <b>2015</b> , 161, 470-485	56.2	177
135	Transforming binding affinities from three dimensions to two with application to cadherin clustering. <i>Nature</i> , <b>2011</b> , 475, 510-3	50.4	174
134	Cadherin-mediated cell-cell adhesion: sticking together as a family. <i>Current Opinion in Structural Biology</i> , <b>2003</b> , 13, 690-8	8.1	174
133	Delineating antibody recognition in polyclonal sera from patterns of HIV-1 isolate neutralization. <i>Science</i> , <b>2013</b> , 340, 751-6	33.3	172
132	Positive-unlabeled convolutional neural networks for particle picking in cryo-electron micrographs. <i>Nature Methods</i> , <b>2019</b> , 16, 1153-1160	21.6	172
131	Epitope-based vaccine design yields fusion peptide-directed antibodies that neutralize diverse strains of HIV-1. <i>Nature Medicine</i> , <b>2018</b> , 24, 857-867	50.5	169
130	Cryo-EM Structures of SARS-CoV-2 Spike without and with ACE2 Reveal a pH-Dependent Switch to Mediate Endosomal Positioning of Receptor-Binding Domains. <i>Cell Host and Microbe</i> , <b>2020</b> , 28, 867-879	9. <del>23</del> ·4	168
129	Functional cis-heterodimers of N- and R-cadherins. <i>Journal of Cell Biology</i> , <b>2000</b> , 148, 579-90	7.3	163
128	DNA and RNA: NMR studies of conformations and dynamics in solution. <i>Quarterly Reviews of Biophysics</i> , <b>1987</b> , 20, 35-112	7	161
127	Adhesion molecules in the nervous system: structural insights into function and diversity. <i>Annual Review of Neuroscience</i> , <b>2007</b> , 30, 451-74	17	157

Antibody Resistance of SARS-CoV-2 Variants B.1.351 and B.1.1.7 <b>2021</b> ,		154
Two-step adhesive binding by classical cadherins. <i>Nature Structural and Molecular Biology</i> , <b>2010</b> , 17, 348	- <b>57</b> .6	152
New Member of the V1V2-Directed CAP256-VRC26 Lineage That Shows Increased Breadth and Exceptional Potency. <i>Journal of Virology</i> , <b>2016</b> , 90, 76-91	6.6	151
Structures from anomalous diffraction of native biological macromolecules. <i>Science</i> , <b>2012</b> , 336, 1033-7	33.3	142
Induction of HIV Neutralizing Antibody Lineages in Mice with Diverse Precursor Repertoires. <i>Cell</i> , <b>2016</b> , 166, 1471-1484.e18	56.2	132
Single-cell identity generated by combinatorial homophilic interactions between $\Pi$ and $\Pi$ protocadherins. <i>Cell</i> , <b>2014</b> , 158, 1045-1059	56.2	131
Quantification of the Impact of the HIV-1-Glycan Shield on Antibody Elicitation. <i>Cell Reports</i> , <b>2017</b> , 19, 719-732	10.6	123
Routine single particle CryoEM sample and grid characterization by tomography. <i>ELife</i> , <b>2018</b> , 7,	8.9	123
Specificity of cell-cell adhesion by classical cadherins: Critical role for low-affinity dimerization through beta-strand swapping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 8531-6	11.5	119
T-cadherin structures reveal a novel adhesive binding mechanism. <i>Nature Structural and Molecular Biology</i> , <b>2010</b> , 17, 339-47	17.6	105
Cooperativity between trans and cis interactions in cadherin-mediated junction formation.  Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17592-7	11.5	99
Structural basis of adhesive binding by desmocollins and desmogleins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7160-5	11.5	95
Molecular logic of neuronal self-recognition through protocadherin domain interactions. <i>Cell</i> , <b>2015</b> , 163, 629-42	56.2	94
Quality and quantity of TFH cells are critical for broad antibody development in SHIVAD8 infection. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 298ra120	17.5	89
Identification of a transiently exposed VE-cadherin epitope that allows for specific targeting of an antibody to the tumor neovasculature. <i>Blood</i> , <b>2005</b> , 105, 4337-44	2.2	87
Nectin ectodomain structures reveal a canonical adhesive interface. <i>Nature Structural and Molecular Biology</i> , <b>2012</b> , 19, 906-15	17.6	83
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Molecular design principles underlying Estrand swapping in the adhesive dimerization of cadherins. <i>Nature Structural and Molecular Biology</i> , <b>2011</b> , 18, 693-700	17.6	80
	Two-step adhesive binding by classical cadherins. <i>Nature Structural and Molecular Biology</i> , <b>2010</b> , 17, 348  New Member of the V1V2-Directed CAP256-VRC26 Lineage That Shows Increased Breadth and Exceptional Potency. <i>Journal of Virology</i> , <b>2016</b> , 90, 76-91  Structures from anomalous diffraction of native biological macromolecules. <i>Science</i> , <b>2012</b> , 336, 1033-7  Induction of HIV Neutralizing Antibody Lineages in Mice with Diverse Precursor Repertoires. <i>Cell</i> , <b>2016</b> , 166, 1471-1484.e18  Single-cell identity generated by combinatorial homophilic interactions between JQ and II protocadherins. <i>Cell</i> , <b>2014</b> , 158, 1045-1059  Quantification of the Impact of the HIV-1-Glycan Shield on Antibody Elicitation. <i>Cell Reports</i> , <b>2017</b> , 19, 719-732  Routine single particle CryoEM sample and grid characterization by tomography. <i>ELife</i> , <b>2018</b> , 7,  Specificity of cell-cell adhesion by classical cadherins: Critical role for low-affinity dimerization through beta-strand swapping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 8531-6  T-cadherin structures reveal a novel adhesive binding mechanism. <i>Nature Structural and Molecular Biology</i> , <b>2010</b> , 17, 339-47  Cooperativity between trans and cis interactions in cadherin-mediated junction formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 17592-7  Structural basis of adhesive binding by desmocollins and desmogleins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7160-5  Molecular logic of neuronal self-recognition through protocadherin domain interactions. <i>Cell</i> , <b>2015</b> , 163, 629-42  Quality and quantity of TFH cells are critical for broad antibody development in SHIVAD8 infection. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 298ra120  Udentification of a transiently exposed VE-cadherin epitope that allows for specific targeting of an antibody to the tumor neovasculature. <i>Blood</i> , <b>2005</b> , 105, 4337-44  Nectin ectodomain str	Two-step adhesive binding by classical cadherins. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 348-57.6  New Member of the VIV2-Directed CAP256-VRC26 Lineage That Shows Increased Breadth and Exceptional Potency. <i>Journal of Virology</i> , 2016, 90, 76-91  Structures from anomalous diffraction of native biological macromolecules. <i>Science</i> , 2012, 336, 1033-7  33-3  Induction of HIV Neutralizing Antibody Lineages in Mice with Diverse Precursor Repertoires. <i>Cell</i> , 2016, 166, 1471-1484.e18  Single-cell identity generated by combinatorial homophilic interactions between [L] and [I] protocadherins. <i>Cell</i> , 2014, 158, 1045-1059  Quantification of the Impact of the HIV-1-Clycan Shield on Antibody Elicitation. <i>Cell Reports</i> , 2017, 19, 719-732  Routine single particle CryoEM sample and grid characterization by tomography. <i>ELIfe</i> , 2018, 7, 8-9  Specificity of cell-cell adhesion by classical cadherins: Critical role for low-affinity dimerization through beta-strand swapping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8531-6  Cooperativity between trans and cis interactions in cadherin-mediated junction formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 17, 339-47  Cooperativity between trans and cis interactions in cadherin-mediated junction formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 17, 17592-7  Structural basis of adhesive binding by desmocollins and desmogleins. <i>Proceedings of the National Academy of Sciences of America</i> , 2016, 113, 7160-5  Molecular logic of neuronal self-recognition through protocadherin domain interactions. <i>Cell</i> , 2015, 163, 629-42  Quality and quantity of TFH cells are critical for broad antibody development in SHIVAD8 infection. <i>Science Translational Medicine</i> , 2015, 7, 298ra120  Quality and quantity of TFH cells are critical for broad antibody development in SHIVAD8 infection. <i>Science Translational Medicine</i> , 2015, 7, 298ra120  De n

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Structures of aminoarabinose transferase ArnT suggest a molecular basis for lipid A glycosylation. <i>Science</i> , <b>2016</b> , 351, 608-12	33.3	70
Antibody Lineages with Vaccine-Induced Antigen-Binding Hotspots Develop Broad HIV Neutralization. <i>Cell</i> , <b>2019</b> , 178, 567-584.e19	56.2	64
Analysis of immunoglobulin transcripts and hypermutation following SHIV(AD8) infection and protein-plus-adjuvant immunization. <i>Nature Communications</i> , <b>2015</b> , 6, 6565	17.4	59
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Gene-Specific Substitution Profiles Describe the Types and Frequencies of Amino Acid Changes during Antibody Somatic Hypermutation. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 537	8.4	57
E-cadherin junction formation involves an active kinetic nucleation process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 10932-7	11.5	57
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A Neutralizing Antibody Recognizing Primarily N-Linked Glycan Targets the Silent Face of the HIV Envelope. <i>Immunity</i> , <b>2018</b> , 48, 500-513.e6	32.3	51
Discovery of an O-mannosylation pathway selectively serving cadherins and protocadherins.  Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11163-1116	8 <sup>11.5</sup>	50
Sequence and structural determinants of strand swapping in cadherin domains: do all cadherins bind through the same adhesive interface?. <i>Journal of Molecular Biology</i> , <b>2008</b> , 378, 954-68	6.5	48
Structural Survey of Broadly Neutralizing Antibodies Targeting the HIV-1 Env Trimer Delineates Epitope Categories and Characteristics of Recognition. <i>Structure</i> , <b>2019</b> , 27, 196-206.e6	5.2	48
Free Energy Perturbation Calculation of Relative Binding Free Energy between Broadly Neutralizing Antibodies and the gp120 Glycoprotein of HIV-1. <i>Journal of Molecular Biology</i> , <b>2017</b> , 429, 930-947	6.5	47
Visualization of clustered protocadherin neuronal self-recognition complexes. <i>Nature</i> , <b>2019</b> , 569, 280-2	<b>83</b> 0.4	46
Dynamic properties of a type II cadherin adhesive domain: implications for the mechanism of strand-swapping of classical cadherins. <i>Structure</i> , <b>2008</b> , 16, 1195-205	5.2	44
	Structure of the STRA6 receptor for retinol uptake. <i>Science</i> , 2016, 353,  Structures of aminoarabinose transferase ArnT suggest a molecular basis for lipid A glycosylation. <i>Science</i> , 2016, 351, 608-12  Antibody Lineages with Vaccine-Induced Antigen-Binding Hotspots Develop Broad HIV Neutralization. <i>Cell</i> , 2019, 178, 567-584.e19  Analysis of immunoglobulin transcripts and hypermutation following SHIV(AD8) infection and protein-plus-adjuvant immunization. <i>Nature Communications</i> , 2015, 6, 6565  Structure and binding mechanism of vascular endothelial cadherin: a divergent classical cadherin. <i>Journal of Molecular Biology</i> , 2011, 408, 57-73  Structural Basis of Diverse Homophilic Recognition by Clustered Band DProtocadherins. <i>Neuron</i> , 2016, 90, 709-23  Gene-Specific Substitution Profiles Describe the Types and Frequencies of Amino Acid Changes during Antibody Somatic Hypermutation. <i>Frontiers in Immunology</i> , 2017, 8, 537  E-cadherin junction formation involves an active kinetic nucleation process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10932-7  Structural and energetic determinants of adhesive binding specificity in type I cadherins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4175-84  Somatic Populations of PCT135-137 HIV-1-Neutralizing Antibodies Identified by 454 Pyrosequencing and Bioinformatics. <i>Frontiers in Microbiology</i> , 2012, 3, 315  A Neutralizing Antibody Recognizing Primarily N-Linked Glycan Targets the Silent Face of the HIV Envelope. <i>Immunity</i> , 2018, 48, 500-513.e6  Discovery of an O-mannosylation pathway selectively serving cadherins and protocadherins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11163-1116.  Sequence and structural determinants of strand swapping in cadherin domains: do all cadherins bind through the same adhesive interface?. <i>Journal of Molecular Biology</i> , 2008, 378, 954-68  Structural Survey of Broadly Neutralizing Antibod	Structure of the STRA6 receptor for retinol uptake. Science, 2016, 353, 333  Structures of aminoarabinose transferase ArnT suggest a molecular basis for lipid A glycosylation. 5cience, 2016, 351, 608-12 333  Antibody Lineages with Vaccine-Induced Antigen-Binding Hotspots Develop Broad HIV Neutralization. Cell, 2019, 178, 567-584-e19 56.2  Analysis of immunoglobulin transcripts and hypermutation following SHIV(ADB) infection and protein-plus-adjuvant immunization. Nature Communications, 2015, 6, 6565 17,4  Analysis of immunoglobulin transcripts and hypermutation following SHIV(ADB) infection and protein-plus-adjuvant immunization. Nature Communications, 2015, 6, 6565 17,4  Structure and binding mechanism of vascular endothelial cadherin: a divergent classical cadherin. Journal of Molecular Biology, 2011, 408, 57-73 65.  Structural Basis of Diverse Homophilic Recognition by Clustered Band (1)-Protocadherins. Neuron, 2016, 90, 709-23 13,9  Gene-Specific Substitution Profiles Describe the Types and Frequencies of Amino Acid Changes during Antibody Somatic Hypermutation. Frantiers in Immunology, 2017, 8, 537 84.  E-cadherin junction formation involves an active kinetic nucleation process. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4175-84 11.5  Structural and energetic determinants of adhesive binding specificity in type I cadherins. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4175-84 11.5  Somatic Populations of PCT135-137 HIV-1-Neutralizing Antibodies Identified by 454 Pyrosequencing and Bioinformatics. Frontiers in Microbiology, 2012, 3, 315 57  A Neutralizing Antibody Recognizing Primarily N-Linked Glycan Targets the Silent Face of the HIV Envelope. Immunity, 2018, 48, 500-513.e6 57  Discovery of an O-mannosylation pathway selectively serving cadherins and protocadherins. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11163-11168 11.5  Sequence and structural determinant

90	Cadherin-11 in poor prognosis malignancies and rheumatoid arthritis: common target, common therapies. <i>Oncotarget</i> , <b>2014</b> , 5, 1458-74	3.3	42
89	Adhesion Protein Structure, Molecular Affinities, and Principles of Cell-Cell Recognition. <i>Cell</i> , <b>2020</b> , 181, 520-535	56.2	41
88	SONAR: A High-Throughput Pipeline for Inferring Antibody Ontogenies from Longitudinal Sequencing of B Cell Transcripts. <i>Frontiers in Immunology</i> , <b>2016</b> , 7, 372	8.4	39
87	Targeted Isolation of Antibodies Directed against Major Sites of SIV Env Vulnerability. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005537	7.6	39
86	Modular basis for potent SARS-CoV-2 neutralization by a prevalent VH1-2-derived antibody class. <i>Cell Reports</i> , <b>2021</b> , 35, 108950	10.6	38
85	Protocadherin structural diversity and functional implications. <i>ELife</i> , <b>2016</b> , 5,	8.9	37
84	Interactions between the Ig-Superfamily Proteins DIP-land Dpr6/10 Regulate Assembly of Neural Circuits. <i>Neuron</i> , <b>2018</b> , 100, 1369-1384.e6	13.9	37
83	Elasticity of individual protocadherin 15 molecules implicates tip links as the gating springs for hearing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 110	04 <del>8</del> -751(	0 <i>5</i> 66
82	Structural basis for accommodation of emerging B.1.351 and B.1.1.7 variants by two potent SARS-CoV-2 neutralizing antibodies. <i>Structure</i> , <b>2021</b> , 29, 655-663.e4	5.2	36
81	Structure-Based Design with Tag-Based Purification and In-Process Biotinylation Enable Streamlined Development of SARS-CoV-2 Spike Molecular Probes. <i>Cell Reports</i> , <b>2020</b> , 33, 108322	10.6	35
80	ECatenin-mediated cadherin clustering couples cadherin and actin dynamics. <i>Journal of Cell Biology</i> , <b>2015</b> , 210, 647-61	7.3	34
79	Crystal structures of Drosophila N-cadherin ectodomain regions reveal a widely used class of Ca🕒-free interdomain linkers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E127-34	11.5	34
78	The adhesive binding site of cadherins revisited. <i>Biophysical Chemistry</i> , <b>1999</b> , 82, 157-63	3.5	34
77	Neuron-Subtype-Specific Expression, Interaction Affinities, and Specificity Determinants of DIP/Dpr Cell Recognition Proteins. <i>Neuron</i> , <b>2018</b> , 100, 1385-1400.e6	13.9	34
76	Protocadherin -dimer architecture and recognition unit diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E9829-E9837	11.5	33
75	Surface-Matrix Screening Identifies Semi-specific Interactions that Improve Potency of a Near Pan-reactive HIV-1-Neutralizing Antibody. <i>Cell Reports</i> , <b>2018</b> , 22, 1798-1809	10.6	33
74	Increased Resistance of SARS-CoV-2 Variants B.1.351 and B.1.1.7 to Antibody Neutralization <b>2021</b> ,		32
73	cAb-Rep: A Database of Curated Antibody Repertoires for Exploring Antibody Diversity and Predicting Antibody Prevalence. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 2365	8.4	31

## (2005-2019)

72	Prolonged evolution of the memory B cell response induced by a replicating adenovirus-influenza H5 vaccine. <i>Science Immunology</i> , <b>2019</b> , 4,	28	30
71	Homophilic and Heterophilic Interactions of Type II Cadherins Identify Specificity Groups Underlying Cell-Adhesive Behavior. <i>Cell Reports</i> , <b>2018</b> , 23, 1840-1852	10.6	30
7°	Sequence-dependent recognition of DNA duplexes: netropsin complexation to the TATA site of the d(G-G-T-A-T-A-C-C) duplex in aqueous solution. <i>Biopolymers</i> , <b>1986</b> , 25, 707-27	2.2	30
69	Cryo-EM Structures Delineate a pH-Dependent Switch that Mediates Endosomal Positioning of SARS-CoV-2 Spike Receptor-Binding Domains <b>2020</b> ,		28
68	Mammalian -mannosylation of cadherins and plexins is independent of protein -mannosyltransferases 1 and 2. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 11586-11598	5.4	27
67	Structural basis for catalysis in a CDP-alcohol phosphotransferase. <i>Nature Communications</i> , <b>2014</b> , 5, 406	817.4	27
66	Effects of Darwinian Selection and Mutability on Rate of Broadly Neutralizing Antibody Evolution during HIV-1 Infection. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1004940	5	27
65	Antibodyomics: bioinformatics technologies for understanding B-cell immunity to HIV-1. <i>Immunological Reviews</i> , <b>2017</b> , 275, 108-128	11.3	26
64	Spatial and temporal organization of cadherin in punctate adherens junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E4406-E4415	11.5	26
63	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> , <b>2019</b> , 14, e0215163	3.7	25
62	Structural basis for phosphatidylinositol-phosphate biosynthesis. <i>Nature Communications</i> , <b>2015</b> , 6, 8505	5 17.4	25
61	Molecular basis of sidekick-mediated cell-cell adhesion and specificity. <i>ELife</i> , <b>2016</b> , 5,	8.9	24
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