

Jean-Philippe Julien

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers

10,283
citations

45
h-index

99
g-index

99
ext. papers

12,052
ext. citations

15.6
avg, IF

5.47
L-index

#	Paper	IF	Citations
86	Lyophilized, thermostable Spike or RBD immunogenic liposomes induce protective immunity against SARS-CoV-2 in mice. <i>Science Advances</i> , 2021 , 7, eabj1476	14.3	3
85	Multiscale interactome analysis coupled with off-target drug predictions reveals drug repurposing candidates for human coronavirus disease. <i>Scientific Reports</i> , 2021 , 11, 23315	4.9	2
84	Structural Characterization of Endogenous Tuberos Sclerosis Protein Complex Revealed Potential Polymeric Assembly. <i>Biochemistry</i> , 2021 , 60, 1808-1821	3.2	0
83	Multivalency transforms SARS-CoV-2 antibodies into ultrapotent neutralizers. <i>Nature Communications</i> , 2021 , 12, 3661	17.4	14
82	A GPC2 antibody-drug conjugate is efficacious against neuroblastoma and small-cell lung cancer via binding a conformational epitope. <i>Cell Reports Medicine</i> , 2021 , 2, 100344	18	5
81	Structural details of monoclonal antibody m971 recognition of the membrane-proximal domain of CD22. <i>Journal of Biological Chemistry</i> , 2021 , 297, 100966	5.4	1
80	Focal accumulation of aromaticity at the CDRH3 loop mitigates 4E10 polyreactivity without altering its HIV neutralization profile. <i>iScience</i> , 2021 , 24, 102987	6.1	
79	Systematic Engineering of Optimized Autonomous Heavy-Chain Variable Domains. <i>Journal of Molecular Biology</i> , 2021 , 433, 167241	6.5	0
78	Affinity for the Interface Underpins Potency of Antibodies Operating In Membrane Environments. <i>Cell Reports</i> , 2020 , 32, 108037	10.6	3
77	De novo protein design enables the precise induction of RSV-neutralizing antibodies. <i>Science</i> , 2020 , 368,	33.3	69
76	Evolution of protective human antibodies against Plasmodium falciparum circumsporozoite protein repeat motifs. <i>Nature Medicine</i> , 2020 , 26, 1135-1145	50.5	23
75	Recognition of Semaphorin Proteins by P. <i>fordellii</i> Lethal Toxin Reveals Principles of Receptor Specificity in Clostridial Toxins. <i>Cell</i> , 2020 , 182, 345-356.e16	56.2	10
74	Structural ordering of the circumsporozoite protein repeats by inhibitory antibody 3D11. <i>ELife</i> , 2020 , 9,	8.9	1
73	Structural characterization of the ICOS/ICOS-L immune complex reveals high molecular mimicry by therapeutic antibodies. <i>Nature Communications</i> , 2020 , 11, 5066	17.4	8
72	A versatile soluble siglec scaffold for sensitive and quantitative detection of glycan ligands. <i>Nature Communications</i> , 2020 , 11, 5091	17.4	20
71	A high-affinity antibody against the CSP N-terminal domain lacks Plasmodium falciparum inhibitory activity. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	5
70	B cell targeting by molecular adjuvants for enhanced immunogenicity. <i>Expert Review of Vaccines</i> , 2020 , 19, 1023-1039	5.2	3

69	Molecular recognition of the native HIV-1 MPER revealed by STED microscopy of single virions. <i>Nature Communications</i> , 2019 , 10, 78	17.4	22
68	Antibodies against Plasmodium falciparum malaria at the molecular level. <i>Nature Reviews Immunology</i> , 2019 , 19, 761-775	36.5	39
67	Potent antibody lineage against malaria transmission elicited by human vaccination with Pfs25. <i>Nature Communications</i> , 2019 , 10, 4328	17.4	16
66	N-Linked Glycosylation Regulates CD22 Organization and Function. <i>Frontiers in Immunology</i> , 2019 , 10, 699	8.4	13
65	Structure-guided design fine-tunes pharmacokinetics, tolerability, and antitumor profile of multispecific frizzled antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6812-6817	11.5	13
64	Cholesterol Interaction Directly Enhances Intrinsic Activity of the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR). <i>Cells</i> , 2019 , 8,	7.9	17
63	Molecular Basis of Unusually High Neutralization Resistance in Tier 3 HIV-1 Strain 253-11. <i>Journal of Virology</i> , 2018 , 92,	6.6	12
62	Structural Basis of Enhanced Crystallizability Induced by a Molecular Chaperone for Antibody Antigen-Binding Fragments. <i>Journal of Molecular Biology</i> , 2018 , 430, 322-336	6.5	16
61	Antihomotypic affinity maturation improves human B cell responses against a repetitive epitope. <i>Science</i> , 2018 , 360, 1358-1362	33.3	49
60	Rare PfCSP C-terminal antibodies induced by live sporozoite vaccination are ineffective against malaria infection. <i>Journal of Experimental Medicine</i> , 2018 , 215, 63-75	16.6	43
59	Structural delineation of potent transmission-blocking epitope I on malaria antigen Pfs48/45. <i>Nature Communications</i> , 2018 , 9, 4458	17.4	18
58	Peek-Peak-Pique: Repeating Motifs of Subtle Variance Are Targets for Potent Malaria Antibodies. <i>Immunity</i> , 2018 , 48, 851-854	32.3	4
57	Characterization of Glycoproteins with the Immunoglobulin Fold by X-Ray Crystallography and Biophysical Techniques. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	1
56	A Broadly Neutralizing Antibody Targets the Dynamic HIV Envelope Trimer Apex via a Long, Rigidified, and Anionic Hairpin Structure. <i>Immunity</i> , 2017 , 46, 690-702	32.3	146
55	Key Residues at Third CDR3 Position Impact Structure and Antigen Recognition of Human Invariant NK TCRs. <i>Journal of Immunology</i> , 2017 , 198, 1056-1065	5.3	2
54	Molecular basis of human CD22 function and therapeutic targeting. <i>Nature Communications</i> , 2017 , 8, 764	17.4	68
53	Improving the Immunogenicity of Native-like HIV-1 Envelope Trimers by Hyperstabilization. <i>Cell Reports</i> , 2017 , 20, 1805-1817	10.6	112
52	Natural Parasite Exposure Induces Protective Human Anti-Malarial Antibodies. <i>Immunity</i> , 2017 , 47, 1197-1209.e10	32.3	10

51	Molecular definition of multiple sites of antibody inhibition of malaria transmission-blocking vaccine antigen Pf25. <i>Nature Communications</i> , 2017 , 8, 1568	17.4	33
50	The structural basis of modified nucleosome recognition by 53BP1. <i>Nature</i> , 2016 , 536, 100-3	50.4	150
49	Discrete TCR Binding Kinetics Control Invariant NKT Cell Selection and Central Priming. <i>Journal of Immunology</i> , 2016 , 197, 3959-3969	5.3	23
48	HIV-1 broadly neutralizing antibody precursor B cells revealed by germline-targeting immunogen. <i>Science</i> , 2016 , 351, 1458-63	33.3	266
47	EspP, an Extracellular Serine Protease from Enterohemorrhagic E. coli, Reduces Coagulation Factor Activities, Reduces Clot Strength, and Promotes Clot Lysis. <i>PLoS ONE</i> , 2016 , 11, e0149830	3.7	1
46	Minimally Mutated HIV-1 Broadly Neutralizing Antibodies to Guide Reductionist Vaccine Design. <i>PLoS Pathogens</i> , 2016 , 12, e1005815	7.6	76
45	HIV-1 VACCINES. HIV-1 neutralizing antibodies induced by native-like envelope trimers. <i>Science</i> , 2015 , 349, aac4223	33.3	394
44	Comprehensive antigenic map of a cleaved soluble HIV-1 envelope trimer. <i>PLoS Pathogens</i> , 2015 , 11, e1004767	7.6	85
43	A native-like SOSIP.664 trimer based on an HIV-1 subtype B env gene. <i>Journal of Virology</i> , 2015 , 89, 3380-3395	69.5	191
42	Design and structure of two HIV-1 clade C SOSIP.664 trimers that increase the arsenal of native-like Env immunogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11947-52	11.5	97
41	Immunogenicity of Stabilized HIV-1 Envelope Trimers with Reduced Exposure of Non-neutralizing Epitopes. <i>Cell</i> , 2015 , 163, 1702-15	56.2	251
40	Origins of a Vaccine-Induced, Human Anti-HIV-1 Antibody. <i>EBioMedicine</i> , 2015 , 2, 632-3	8.8	
39	Antibody potency relates to the ability to recognize the closed, pre-fusion form of HIV Env. <i>Nature Communications</i> , 2015 , 6, 6144	17.4	101
38	Redesigned HIV antibodies exhibit enhanced neutralizing potency and breadth. <i>Journal of Clinical Investigation</i> , 2015 , 125, 2523-31	15.9	22
37	Structural delineation of a quaternary, cleavage-dependent epitope at the gp41-gp120 interface on intact HIV-1 Env trimers. <i>Immunity</i> , 2014 , 40, 669-80	32.3	267
36	Structural evolution of glycan recognition by a family of potent HIV antibodies. <i>Cell</i> , 2014 , 159, 69-79	56.2	147
35	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	3.6	121
34	CD4-induced activation in a soluble HIV-1 Env trimer. <i>Structure</i> , 2014 , 22, 974-84	5.2	101

33	Promiscuous glycan site recognition by antibodies to the high-mannose patch of gp120 broadens neutralization of HIV. <i>Science Translational Medicine</i> , 2014 , 6, 236ra63	17.5	148
32	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, 17624-9	11.5	239
31	Structure of 2G12 Fab2 in complex with soluble and fully glycosylated HIV-1 Env by negative-stain single-particle electron microscopy. <i>Journal of Virology</i> , 2014 , 88, 10177-88	6.6	53
30	Crystal structure of a soluble cleaved HIV-1 envelope trimer. <i>Science</i> , 2013 , 342, 1477-83	33.3	687
29	Cryo-EM structure of a fully glycosylated soluble cleaved HIV-1 envelope trimer. <i>Science</i> , 2013 , 342, 1484-90	33.3	573
28	Structural characterization of cleaved, soluble HIV-1 envelope glycoprotein trimers. <i>Journal of Virology</i> , 2013 , 87, 9865-72	6.6	67
27	Rational HIV immunogen design to target specific germline B cell receptors. <i>Science</i> , 2013 , 340, 711-6	33.3	519
26	Supersite of immune vulnerability on the glycosylated face of HIV-1 envelope glycoprotein gp120. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 796-803	17.6	274
25	Ebolavirus VP35 coats the backbone of double-stranded RNA for interferon antagonism. <i>Journal of Virology</i> , 2013 , 87, 10385-8	6.6	38
24	The effects of somatic hypermutation on neutralization and binding in the PGT121 family of broadly neutralizing HIV antibodies. <i>PLoS Pathogens</i> , 2013 , 9, e1003754	7.6	144
23	Broadly neutralizing antibody PGT121 allosterically modulates CD4 binding via recognition of the HIV-1 gp120 V3 base and multiple surrounding glycans. <i>PLoS Pathogens</i> , 2013 , 9, e1003342	7.6	235
22	A next-generation cleaved, soluble HIV-1 Env trimer, BG505 SOSIP.664 gp140, expresses multiple epitopes for broadly neutralizing but not non-neutralizing antibodies. <i>PLoS Pathogens</i> , 2013 , 9, e1003618	7.6	644
21	Asymmetric recognition of the HIV-1 trimer by broadly neutralizing antibody PG9. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4351-6	11.5	214
20	Cleavage strongly influences whether soluble HIV-1 envelope glycoprotein trimers adopt a native-like conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18256-61	11.5	151
19	Influences on trimerization and aggregation of soluble, cleaved HIV-1 SOSIP envelope glycoprotein. <i>Journal of Virology</i> , 2013 , 87, 9873-85	6.6	71
18	Computational design of high-affinity epitope scaffolds by backbone grafting of a linear epitope. <i>Journal of Molecular Biology</i> , 2012 , 415, 175-92	6.5	80
17	Structural insights into key sites of vulnerability on HIV-1 Env and influenza HA. <i>Immunological Reviews</i> , 2012 , 250, 180-98	11.3	76
16	Toward a Carbohydrate-Based HIV-1 Vaccine. <i>ACS Symposium Series</i> , 2012 , 187-215	0.4	3

15	Marburg virus VP35 can both fully coat the backbone and cap the ends of dsRNA for interferon antagonism. <i>PLoS Pathogens</i> , 2012 , 8, e1002916	7.6	54
14	Partial enzymatic deglycosylation preserves the structure of cleaved recombinant HIV-1 envelope glycoprotein trimers. <i>Journal of Biological Chemistry</i> , 2012 , 287, 24239-54	5.4	45
13	Neutralizing epitopes in the membrane-proximal external region of HIV-1 gp41 are influenced by the transmembrane domain and the plasma membrane. <i>Journal of Virology</i> , 2012 , 86, 2930-41	6.6	51
12	A Potent and Broad Neutralizing Antibody Recognizes and Penetrates the HIV Glycan Shield. <i>FASEB Journal</i> , 2012 , 26, lb263	0.9	
11	Broad neutralization coverage of HIV by multiple highly potent antibodies. <i>Nature</i> , 2011 , 477, 466-70	50.4	1164
10	Structure-based design of a protein immunogen that displays an HIV-1 gp41 neutralizing epitope. <i>Journal of Molecular Biology</i> , 2011 , 414, 460-76	6.5	17
9	A potent and broad neutralizing antibody recognizes and penetrates the HIV glycan shield. <i>Science</i> , 2011 , 334, 1097-103	33.3	576
8	Interaction of anti-HIV type 1 antibody 2F5 with phospholipid bilayers and its relevance for the mechanism of virus neutralization. <i>AIDS Research and Human Retroviruses</i> , 2011 , 27, 863-76	1.6	11
7	Structure of HIV-1 gp120 V1/V2 domain with broadly neutralizing antibody PG9. <i>Nature</i> , 2011 , 480, 336-40	30.4	682
6	Ablation of the complementarity-determining region H3 apex of the anti-HIV-1 broadly neutralizing antibody 2F5 abrogates neutralizing capacity without affecting core epitope binding. <i>Journal of Virology</i> , 2010 , 84, 4136-47	6.6	60
5	Crystallographic definition of the epitope promiscuity of the broadly neutralizing anti-human immunodeficiency virus type 1 antibody 2F5: vaccine design implications. <i>Journal of Virology</i> , 2009 , 83, 11862-75	6.6	50
4	Structural constraints imposed by the conserved fusion peptide on the HIV-1 gp41 epitope recognized by the broadly neutralizing antibody 2F5. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13626-37	3.4	20
3	Crystal structure of the complex between the F(ab)V fragment of the cross-neutralizing anti-HIV-1 antibody 2F5 and the F(ab) fragment of its anti-idiotypic antibody 3H6. <i>Journal of Molecular Biology</i> , 2008 , 382, 910-9	6.5	19
2	Structural details of HIV-1 recognition by the broadly neutralizing monoclonal antibody 2F5: epitope conformation, antigen-recognition loop mobility, and anion-binding site. <i>Journal of Molecular Biology</i> , 2008 , 384, 377-92	6.5	76
1	Structural and functional characterization of PseC, an aminotransferase involved in the biosynthesis of pseudaminic acid, an essential flagellar modification in <i>Helicobacter pylori</i> . <i>Journal of Biological Chemistry</i> , 2006 , 281, 8907-16	5.4	78