

Christopher A Cottrell

List of Publications by Citations

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76
papers

3,815
citations

27
h-index

61
g-index

86
ext. papers

5,082
ext. citations

14.9
avg, IF

5.06
L-index

#	Paper	IF	Citations
76	Immunogenicity and structures of a rationally designed prefusion MERS-CoV spike antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7348-E7357	11.5	615
75	Pre-fusion structure of a human coronavirus spike protein. <i>Nature</i> , 2016 , 531, 118-21	50.4	474
74	Stabilized coronavirus spikes are resistant to conformational changes induced by receptor recognition or proteolysis. <i>Scientific Reports</i> , 2018 , 8, 15701	4.9	259
73	Elicitation of Robust Tier 2 Neutralizing Antibody Responses in Nonhuman Primates by HIV Envelope Trimer Immunization Using Optimized Approaches. <i>Immunity</i> , 2017 , 46, 1073-1088.e6	32.3	204
72	Holes in the Glycan Shield of the Native HIV Envelope Are a Target of Trimer-Elicited Neutralizing Antibodies. <i>Cell Reports</i> , 2016 , 16, 2327-38	10.6	163
71	Open and closed structures reveal allostery and pliability in the HIV-1 envelope spike. <i>Nature</i> , 2017 , 547, 360-363	50.4	155
70	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
69	Slow Delivery Immunization Enhances HIV Neutralizing Antibody and Germinal Center Responses via Modulation of Immunodominance. <i>Cell</i> , 2019 , 177, 1153-1171.e28	56.2	143
68	Improving the Immunogenicity of Native-like HIV-1 Envelope Trimers by Hyperstabilization. <i>Cell Reports</i> , 2017 , 20, 1805-1817	10.6	112
67	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	32.3	110
66	An HIV-1 antibody from an elite neutralizer implicates the fusion peptide as a site of vulnerability. <i>Nature Microbiology</i> , 2016 , 2, 16199	26.6	103
65	Structure-based design of native-like HIV-1 envelope trimers to silence non-neutralizing epitopes and eliminate CD4 binding. <i>Nature Communications</i> , 2017 , 8, 1655	17.4	96
64	Vaccine-Induced Protection from Homologous Tier 2 SHIV Challenge in Nonhuman Primates Depends on Serum-Neutralizing Antibody Titers. <i>Immunity</i> , 2019 , 50, 241-252.e6	32.3	96
63	Enhancing and shaping the immunogenicity of native-like HIV-1 envelope trimers with a two-component protein nanoparticle. <i>Nature Communications</i> , 2019 , 10, 4272	17.4	80
62	Structures of Ebola virus GP and sGP in complex with therapeutic antibodies. <i>Nature Microbiology</i> , 2016 , 1, 16128	26.6	78
61	Epitopes for neutralizing antibodies induced by HIV-1 envelope glycoprotein BG505 SOSIP trimers in rabbits and macaques. <i>PLoS Pathogens</i> , 2018 , 14, e1006913	7.6	78
60	Influences on the Design and Purification of Soluble, Recombinant Native-Like HIV-1 Envelope Glycoprotein Trimers. <i>Journal of Virology</i> , 2015 , 89, 12189-210	6.6	66

59	Vaccination with Glycan-Modified HIV NFL Envelope Trimer-Liposomes Elicits Broadly Neutralizing Antibodies to Multiple Sites of Vulnerability. <i>Immunity</i> , 2019 , 51, 915-929.e7	32.3	62
58	Structure of the human volume regulated anion channel. <i>ELife</i> , 2018 , 7,	8.9	61
57	Closing and Opening Holes in the Glycan Shield of HIV-1 Envelope Glycoprotein SOSIP Trimers Can Redirect the Neutralizing Antibody Response to the Newly Unmasked Epitopes. <i>Journal of Virology</i> , 2019 , 93,	6.6	50
56	Mapping Polyclonal Antibody Responses in Non-human Primates Vaccinated with HIV Env Trimer Subunit Vaccines. <i>Cell Reports</i> , 2020 , 30, 3755-3765.e7	10.6	49
55	Similarities and differences between native HIV-1 envelope glycoprotein trimers and stabilized soluble trimer mimetics. <i>PLoS Pathogens</i> , 2019 , 15, e1007920	7.6	41
54	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. <i>PLoS Pathogens</i> , 2020 , 16, e1008753	7.6	37
53	Reducing V3 Antigenicity and Immunogenicity on Soluble, Native-Like HIV-1 Env SOSIP Trimers. <i>Journal of Virology</i> , 2017 , 91,	6.6	33
52	Cryo-EM structure of circumsporozoite protein with a vaccine-elicited antibody is stabilized by somatically mutated inter-Fab contacts. <i>Science Advances</i> , 2018 , 4, eaau8529	14.3	33
51	Visualization of the HIV-1 Env glycan shield across scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 28014-28025	11.5	29
50	Potent anti-influenza H7 human monoclonal antibody induces separation of hemagglutinin receptor-binding head domains. <i>PLoS Biology</i> , 2019 , 17, e3000139	9.7	26
49	Effects of Adjuvants on HIV-1 Envelope Glycoprotein SOSIP Trimers. <i>Journal of Virology</i> , 2018 , 92,	6.6	26
48	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	23.4	25
47	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens. <i>PLoS Pathogens</i> , 2020 , 16, e1008665	7.6	25
46	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	5.2	24
45	Autologous Antibody Responses to an HIV Envelope Glycan Hole Are Not Easily Broadened in Rabbits. <i>Journal of Virology</i> , 2020 , 94,	6.6	24
44	Structure-Guided Redesign Improves NFL HIV Env Trimer Integrity and Identifies an Inter-Protomer Disulfide Permitting Post-Expression Cleavage. <i>Frontiers in Immunology</i> , 2018 , 9, 1631	8.4	24
43	Targeting HIV Env immunogens to B cell follicles in nonhuman primates through immune complex or protein nanoparticle formulations. <i>Npj Vaccines</i> , 2020 , 5, 72	9.5	20
42	Improving the Expression and Purification of Soluble, Recombinant Native-Like HIV-1 Envelope Glycoprotein Trimers by Targeted Sequence Changes. <i>Journal of Virology</i> , 2017 , 91,	6.6	19

41	Mapping Neutralizing Antibody Epitope Specificities to an HIV Env Trimer in Immunized and in Infected Rhesus Macaques. <i>Cell Reports</i> , 2020 , 32, 108122	10.6	12
40	Enhancing glycan occupancy of soluble HIV-1 envelope trimers to mimic the native viral spike. <i>Cell Reports</i> , 2021 , 35, 108933	10.6	11
39	HIV envelope trimer-elicited autologous neutralizing antibodies bind a region overlapping the N332 glycan supersite. <i>Science Advances</i> , 2020 , 6, eaba0512	14.3	10
38	Disassembly of HIV envelope glycoprotein trimer immunogens is driven by antibodies elicited via immunization. <i>Science Advances</i> , 2021 , 7,	14.3	9
37	The C3/465 glycan hole cluster in BG505 HIV-1 envelope is the major neutralizing target involved in preventing mucosal SHIV infection. <i>PLoS Pathogens</i> , 2021 , 17, e1009257	7.6	9
36	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM. <i>Nature Communications</i> , 2021 , 12, 4817	17.4	8
35	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates		7
34	Neutralizing Antibody Responses Induced by HIV-1 Envelope Glycoprotein SOSIP Trimers Derived from Elite Neutralizers. <i>Journal of Virology</i> , 2020 , 94,	6.6	7
33	Enhancing glycan occupancy of soluble HIV-1 envelope trimers to mimic the native viral spike		6
32	Mapping polyclonal antibody responses in non-human primates vaccinated with HIV Env trimer subunit vaccines		5
31	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens		4
30	Slow delivery immunization enhances HIV neutralizing antibody and germinal center responses via modulation of immunodominance		4
29	Visualization of the HIV-1 Env Glycan Shield Across Scales		3
28	Mining HIV controllers for broad and functional antibodies to recognize and eliminate HIV-infected cells. <i>Cell Reports</i> , 2021 , 35, 109167	10.6	3
27	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	7.6	3
26	High-resolution mapping of the neutralizing and binding specificities of polyclonal sera post-HIV Env trimer vaccination. <i>ELife</i> , 2021 , 10,	8.9	3
25	From structure to sequence: Antibody discovery using cryoEM.. <i>Science Advances</i> , 2022 , 8, eabk2039	14.3	2
24	The glycan hole area of HIV-1 envelope trimers contributes prominently to the induction of autologous neutralization. <i>Journal of Virology</i> , 2021 , JVI0155221	6.6	2

23	Author response: Structure of the human volume regulated anion channel 2018 ,		2
22	Networks of HIV-1 envelope glycans maintain antibody epitopes in the face of glycan additions and deletions		2
21	Targeting HIV Env immunogens to B cell follicles in non-human primates through immune complex or protein nanoparticle formulations		2
20	Disassembly of HIV envelope glycoprotein trimer immunogens is driven by antibodies elicited via immunization 2021 ,		2
19	A broad and potent neutralization epitope in SARS-related coronaviruses. 2022 ,		2
18	Structural basis of glycan276-dependent recognition by HIV-1 broadly neutralizing antibodies. <i>Cell Reports</i> , 2021 , 37, 109922	10.6	1
17	Receptor binding and proteolysis do not induce large conformational changes in the SARS-CoV spike		1
16	Vaccine-induced protection from homologous Tier 2 simian-human immunodeficiency virus challenge in nonhuman primates		1
15	Similarities and differences between native HIV-1 envelope glycoprotein trimers and stabilized soluble trimer mimetics		1
14	Neutralizing antibody responses to an HIV envelope glycan hole are not easily broadened		1
13	HIV Envelope Trimer-Elicited Autologous Neutralizing Antibodies Bind a Region Overlapping the N332 Glycan Supersite		1
12	From Structure to Sequence: Identification of polyclonal antibody families using cryoEM		1
11	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM		1
10	High thermostability improves neutralizing antibody responses induced by native-like HIV-1 envelope trimers.. <i>Npj Vaccines</i> , 2022 , 7, 27	9.5	1
9	Elicitation of potent serum neutralizing antibody responses in rabbits by immunization with an HIV-1 clade C trimeric Env derived from an Indian elite neutralizer. <i>PLoS Pathogens</i> , 2021 , 17, e1008977	7.6	0
8	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens 2020 , 16, e1008665		
7	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens 2020 , 16, e1008665		
6	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens 2020 , 16, e1008665		

- 5 Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens **2020**, 16, e1008665
- 4 Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates **2020**, 16, e1008753
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- 2 Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates **2020**, 16, e1008753
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