Shane Crotty

List of Publications by Citations

208 papers	27,751 citations	78 h-index	166 g-index
234 ext. papers	36,834 ext. citations	15.9 avg, IF	8.15 L-index

#	Paper	IF	Citations
208	Follicular helper CD4 T cells (TFH). *Annual Review of Immunology*, **2011**, 29, 621-63	34.7	1928
207	Targets of T Cell Responses to SARS-CoV-2 Coronavirus in Humans with COVID-19 Disease and Unexposed Individuals. *Cell*, **2020**, 181, 1489-1501.e15	56.2	1900
206	Immunological memory to SARS-CoV-2 assessed for up to 8 months after infection. *Science*, **2021**, 371,	33.3	1183
205	Bcl6 and Blimp-1 are reciprocal and antagonistic regulators of T follicular helper cell differentiation. *Science*, **2009**, 325, 1006-10	33.3	1099
204	T follicular helper cell differentiation, function, and roles in disease. *Immunity*, **2014**, 41, 529-42	32.3	1067
203	Antigen-Specific Adaptive Immunity to SARS-CoV-2 in Acute COVID-19 and Associations with Age and Disease Severity. *Cell*, **2020**, 183, 996-1012.e19	56.2	711
202	The broad-spectrum antiviral ribonucleoside ribavirin is an RNA virus mutagen. *Nature Medicine*, **2000**, 6, 1375-9	50.5	679
201	ICOS receptor instructs T follicular helper cell versus effector cell differentiation via induction of the transcriptional repressor Bcl6. *Immunity*, **2011**, 34, 932-46	32.3	670
200	Human circulating PD-1+CXCR3-CXCR5+ memory Tfh cells are highly functional and correlate with broadly neutralizing HIV antibody responses. *Immunity*, **2013**, 39, 758-69	32.3	613
199	Selective and cross-reactive SARS-CoV-2 T cell epitopes in unexposed humans. *Science*, **2020**, 370, 89-94	33.3	593
198	Adaptive immunity to SARS-CoV-2 and COVID-19. *Cell*, **2021**, 184, 861-880	56.2	519
197	Cutting edge: long-term B cell memory in humans after smallpox vaccination. *Journal of Immunology*, **2003**, 171, 4969-73	5.3	511
196	Cytotoxic T-cell immunity to virus-infected non-haematopoietic cells requires presentation of exogenous antigen. *Nature*, **1999**, 398, 77-80	50.4	488
195	T Follicular Helper Cell Biology: A Decade of Discovery and Diseases. *Immunity*, **2019**, 50, 1132-1148	32.3	478
194	Resolution of a chronic viral infection after interleukin-10 receptor blockade. *Journal of Experimental Medicine*, **2006**, 203, 2461-72	16.6	441
193	Effectors and memories: Bcl-6 and Blimp-1 in T and B lymphocyte differentiation. *Nature Immunology*, **2010**, 11, 114-20	19.1	377
192	IL-21 and IL-6 are critical for different aspects of B cell immunity and redundantly induce optimal follicular helper CD4 T cell (Tfh) differentiation. *PLoS ONE*, **2011**, 6, e17739	3.7	367

191	STAT5 is a potent negative regulator of TFH cell differentiation. *Journal of Experimental Medicine*, **2012**, 209, 243-50	16.6	360
190	Tracking human antigen-specific memory B cells: a sensitive and generalized ELISPOT system. *Journal of Immunological Methods*, **2004**, 286, 111-22	2.5	356
189	The transcription factor NFAT promotes exhaustion of activated CD8+ T cells. *Immunity*, **2015**, 42, 265-278	32.3	347
188	SAP is required for generating long-term humoral immunity. *Nature*, **2003**, 421, 282-7	50.4	346
187	Profiling the humoral immune response to infection by using proteome microarrays: high-throughput vaccine and diagnostic antigen discovery. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 547-52	11.5	338
186	A brief history of T cell help to B cells. *Nature Reviews Immunology*, **2015**, 15, 185-9	36.5	325
185	Germinal center T follicular helper cell IL-4 production is dependent on signaling lymphocytic activation molecule receptor (CD150). *Journal of Immunology*, **2010**, 185, 190-202	5.3	309
184	A Blueprint for HIV Vaccine Discovery. *Cell Host and Microbe*, **2012**, 12, 396-407	23.4	302
183	Inadequate T follicular cell help impairs B cell immunity during HIV infection. *Nature Medicine*, **2013**, 19, 494-9	50.5	286
182	Runx3 programs CD8 T cell residency in non-lymphoid tissues and tumours. *Nature*, **2017**, 552, 253-257	50.4	268
181	HIV-1 broadly neutralizing antibody precursor B cells revealed by germline-targeting immunogen. *Science*, **2016**, 351, 1458-63	33.3	266
180	Bcl6 and Maf cooperate to instruct human follicular helper CD4 T cell differentiation. *Journal of Immunology*, **2012**, 188, 3734-44	5.3	255
179	Immunogenicity of Stabilized HIV-1 Envelope Trimers with Reduced Exposure of Non-neutralizing Epitopes. *Cell*, **2015**, 163, 1702-15	56.2	251
178	Pre-existing immunity to SARS-CoV-2: the knowns and unknowns. *Nature Reviews Immunology*, **2020**, 20, 457-458	36.5	214
177	In vivo regulation of Bcl6 and T follicular helper cell development. *Journal of Immunology*, **2010**, 185, 313-26	5.3	214
176	Cutting edge: STAT1 is required for IL-6-mediated Bcl6 induction for early follicular helper cell differentiation. *Journal of Immunology*, **2013**, 190, 3049-53	5.3	209
175	Elicitation of Robust Tier 2 Neutralizing Antibody Responses in Nonhuman Primates by HIV Envelope Trimer Immunization Using Optimized Approaches. *Immunity*, **2017**, 46, 1073-1088.e6	32.3	204
174	CXCL13 is a plasma biomarker of germinal center activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 2702-7	11.5	204

173	LEF-1 and TCF-1 orchestrate T(FH) differentiation by regulating differentiation circuits upstream of the transcriptional repressor Bcl6. *Nature Immunology*, **2015**, 16, 980-90	19.1	195
172	Impact of SARS-CoV-2 variants on the total CD4 and CD8 T cell reactivity in infected or vaccinated individuals. *Cell Reports Medicine*, **2021**, 2, 100355	18	194
171	Comprehensive analysis of T cell immunodominance and immunoprevalence of SARS-CoV-2 epitopes in COVID-19 cases. *Cell Reports Medicine*, **2021**, 2, 100204	18	184
170	Ribavirin's antiviral mechanism of action: lethal mutagenesis?. *Journal of Molecular Medicine*, **2002**, 80, 86-95	5.5	178
169	Broadly Neutralizing Antibody Responses in a Large Longitudinal Sub-Saharan HIV Primary Infection Cohort. *PLoS Pathogens*, **2016**, 12, e1005369	7.6	178
168	Immunological memory in humans. *Seminars in Immunology*, **2004**, 16, 197-203	10.7	174
167	Dengue virus infection elicits highly polarized CX3CR1+ cytotoxic CD4+ T cells associated with protective immunity. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4256-63	11.5	173
166	Precursor Frequency and Affinity Determine B Cell Competitive Fitness in Germinal Centers, Tested with Germline-Targeting HIV Vaccine Immunogens. *Immunity*, **2018**, 48, 133-146.e6	32.3	173
165	Immunity and immunological memory following smallpox vaccination. *Immunological Reviews*, **2006**, 211, 320-37	11.3	165
164	Bcl6 expressing follicular helper CD4 T cells are fate committed early and have the capacity to form memory. *Journal of Immunology*, **2013**, 190, 4014-26	5.3	164
163	Sustained antigen availability during germinal center initiation enhances antibody responses to vaccination. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E6639-E6648	11.5	164
162	BCL6 orchestrates Tfh cell differentiation via multiple distinct mechanisms. *Journal of Experimental Medicine*, **2015**, 212, 539-53	16.6	156
161	Vaccinia virus H3L envelope protein is a major target of neutralizing antibodies in humans and elicits protection against lethal challenge in mice. *Journal of Virology*, **2005**, 79, 11724-33	6.6	154
160	Selective CD4+ T cell help for antibody responses to a large viral pathogen: deterministic linkage of specificities. *Immunity*, **2008**, 28, 847-58	32.3	145
159	Slow Delivery Immunization Enhances HIV Neutralizing Antibody and Germinal Center Responses via Modulation of Immunodominance. *Cell*, **2019**, 177, 1153-1171.e28	56.2	143
158	Cross-reactive memory T cells and herd immunity to SARS-CoV-2. *Nature Reviews Immunology*, **2020**, 20, 709-713	36.5	132
157	A Cytokine-Independent Approach To Identify Antigen-Specific Human Germinal Center T Follicular Helper Cells and Rare Antigen-Specific CD4+ T Cells in Blood. *Journal of Immunology*, **2016**, 197, 983-93	5.3	131
156	Epigenetic landscapes reveal transcription factors that regulate CD8 T cell differentiation. *Nature Immunology*, **2017**, 18, 573-582	19.1	130

155	SAP regulates T cell-mediated help for humoral immunity by a mechanism distinct from cytokine regulation. *Journal of Experimental Medicine*, **2006**, 203, 1551-65	16.6	129
154	The receptor Ly108 functions as a SAP adaptor-dependent on-off switch for T cell help to B cells and NKT cell development. *Immunity*, **2012**, 36, 986-1002	32.3	122
153	Comparative analysis of activation induced marker (AIM) assays for sensitive identification of antigen-specific CD4 T cells. *PLoS ONE*, **2017**, 12, e0186998	3.7	119
152	Proteome-wide analysis of the serological response to vaccinia and smallpox. *Proteomics*, **2007**, 7, 1678-86	4.8	118
151	Tfh cells and HIV bnAbs, an immunodominance model of the HIV neutralizing antibody generation problem. *Immunological Reviews*, **2017**, 275, 49-61	11.3	111
150	Direct Probing of Germinal Center Responses Reveals Immunological Features and Bottlenecks for Neutralizing Antibody Responses to HIV Env Trimer. *Cell Reports*, **2016**, 17, 2195-2209	10.6	110
149	A distinct subpopulation of CD25 T-follicular regulatory cells localizes in the germinal centers. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E6400-E6409	11.5	110
148	Cytotoxic T-cell immunity to virus-infected non-haematopoietic cells requires presentation of exogenous antigen. *Nature*, **1999**, 402, 25-29	50.4	110
147	Immune responses to Bacillus anthracis protective antigen in patients with bioterrorism-related cutaneous or inhalation anthrax. *Journal of Infectious Diseases*, **2004**, 190, 1228-36	7	109
146	Murine Antibody Responses to Cleaved Soluble HIV-1 Envelope Trimers Are Highly Restricted in Specificity. *Journal of Virology*, **2015**, 89, 10383-98	6.6	105
145	Protection against simian immunodeficiency virus vaginal challenge by using Sabin poliovirus vectors. *Journal of Virology*, **2001**, 75, 7435-52	6.6	100
144	Poliovirus RNA-dependent RNA polymerase (3Dpol): structural, biochemical, and biological analysis of conserved structural motifs A and B. *Journal of Biological Chemistry*, **2000**, 275, 25523-32	5.4	97
143	Structure-based design of native-like HIV-1 envelope trimers to silence non-neutralizing epitopes and eliminate CD4 binding. *Nature Communications*, **2017**, 8, 1655	17.4	96
142	Vaccine-Induced Protection from Homologous Tier 2 SHIV Challenge in Nonhuman Primates Depends on Serum-Neutralizing Antibody Titers. *Immunity*, **2019**, 50, 241-252.e6	32.3	96
141	Activin A programs the differentiation of human TFH cells. *Nature Immunology*, **2016**, 17, 976-84	19.1	90
140	Cytokine-Independent Detection of Antigen-Specific Germinal Center T Follicular Helper Cells in Immunized Nonhuman Primates Using a Live Cell Activation-Induced Marker Technique. *Journal of Immunology*, **2016**, 197, 994-1002	5.3	89
139	A generalized HIV vaccine design strategy for priming of broadly neutralizing antibody responses. *Science*, **2019**, 366,	33.3	89
138	Apolipoprotein AI prevents regulatory to follicular helper T cell switching during atherosclerosis. *Nature Communications*, **2018**, 9, 1095	17.4	85

137	The E3 ubiquitin ligase Itch is required for the differentiation of follicular helper T cells. *Nature Immunology*, **2014**, 15, 657-66	19.1	85
136	SAP regulation of follicular helper CD4 T cell development and humoral immunity is independent of SLAM and Fyn kinase. *Journal of Immunology*, **2007**, 178, 817-28	5.3	84
135	The transcription factor Foxp1 is a critical negative regulator of the differentiation of follicular helper T cells. *Nature Immunology*, **2014**, 15, 667-75	19.1	82
134	Negligible impact of SARS-CoV-2 variants on CD4 and CD8 T cell reactivity in COVID-19 exposed donors and vaccinees **2021**,		81
133	Engineered immunogen binding to alum adjuvant enhances humoral immunity. *Nature Medicine*, **2020**, 26, 430-440	50.5	80
132	Vaccinia virus-specific CD4+ T cell responses target a set of antigens largely distinct from those targeted by CD8+ T cell responses. *Journal of Immunology*, **2007**, 178, 6814-20	5.3	80
131	Quantitative PCR technique for detecting lymphocytic choriomeningitis virus in vivo. *Journal of Virological Methods*, **2008**, 147, 167-76	2.6	79
130	Epitopes for neutralizing antibodies induced by HIV-1 envelope glycoprotein BG505 SOSIP trimers in rabbits and macaques. *PLoS Pathogens*, **2018**, 14, e1006913	7.6	78
129	Dynamic regulation of Bcl6 in follicular helper CD4 T (Tfh) cells. *Current Opinion in Immunology*, **2013**, 25, 366-72	7.8	75
128	Harnessing CD4+ T cell responses in HIV vaccine development. *Nature Medicine*, **2013**, 19, 143-9	50.5	75
127	SARS-CoV-2 vaccination induces immunological T cell memory able to cross-recognize variants from Alpha to Omicron.. *Cell*, **2022**,	56.2	75
126	Immunological memory to SARS-CoV-2 assessed for up to eight months after infection **2020**,		75
125	NKT cells prevent chronic joint inflammation after infection with Borrelia burgdorferi. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 19863-8	11.5	74
124	Ly9 (CD229)-deficient mice exhibit T cell defects yet do not share several phenotypic characteristics associated with SLAM- and SAP-deficient mice. *Journal of Immunology*, **2006**, 176, 291-300	5.3	72
123	Implications of high RNA virus mutation rates: lethal mutagenesis and the antiviral drug ribavirin. *Microbes and Infection*, **2002**, 4, 1301-7	9.3	72
122	Vaccinia virus extracellular enveloped virion neutralization in vitro and protection in vivo depend on complement. *Journal of Virology*, **2009**, 83, 1201-15	6.6	71
121	Redundancy and plasticity of neutralizing antibody responses are cornerstone attributes of the human immune response to the smallpox vaccine. *Journal of Virology*, **2008**, 82, 3751-68	6.6	70
120	The Transcription Factor Runx3 Establishes Chromatin Accessibility of cis-Regulatory Landscapes that Drive Memory Cytotoxic T Lymphocyte Formation. *Immunity*, **2018**, 48, 659-674.e6	32.3	69

119	Inhibition of NK cell activity by IL-17 allows vaccinia virus to induce severe skin lesions in a mouse model of eczema vaccinatum. *Journal of Experimental Medicine*, **2009**, 206, 1219-25	16.6	69
118	Mucosal immunization of cynomolgus macaques with two serotypes of live poliovirus vectors expressing simian immunodeficiency virus antigens: stimulation of humoral, mucosal, and cellular immunity. *Journal of Virology*, **1999**, 73, 9485-95	6.6	69
117	In vivo RNA interference screens identify regulators of antiviral CD4(+) and CD8(+) T cell differentiation. *Immunity*, **2014**, 41, 325-38	32.3	67
116	OX40 drives protective vaccinia virus-specific CD8 T cells. *Journal of Immunology*, **2008**, 181, 7969-76	5.3	63
115	Hybrid immunity. *Science*, **2021**, 372, 1392-1393	33.3	63
114	The human naive B cell repertoire contains distinct subclasses for a germline-targeting HIV-1 vaccine immunogen. *Science Translational Medicine*, **2018**, 10,	17.5	62
113	Germinal center enhancement by extended antigen availability. *Current Opinion in Immunology*, **2017**, 47, 64-69	7.8	62
112	Poliovirus pathogenesis in a new poliovirus receptor transgenic mouse model: age-dependent paralysis and a mucosal route of infection. *Journal of General Virology*, **2002**, 83, 1707-1720	4.9	62
111	Id2 reinforces TH1 differentiation and inhibits E2A to repress TFH differentiation. *Nature Immunology*, **2016**, 17, 834-43	19.1	62
110	Th1/Th17 polarization persists following whole-cell pertussis vaccination despite repeated acellular boosters. *Journal of Clinical Investigation*, **2018**, 128, 3853-3865	15.9	61
109	Low-dose mRNA-1273 COVID-19 vaccine generates durable memory enhanced by cross-reactive T cells. *Science*, **2021**, 374, eabj9853	33.3	60
108	Multifaceted Effects of Antigen Valency on B Cell Response Composition and Differentiation In Vivo. *Immunity*, **2020**, 53, 548-563.e8	32.3	59
107	SARS-CoV-2 human T cell epitopes: Adaptive immune response against COVID-19. *Cell Host and Microbe*, **2021**, 29, 1076-1092	23.4	59
106	Adjuvanting a Simian Immunodeficiency Virus Vaccine with Toll-Like Receptor Ligands Encapsulated in Nanoparticles Induces Persistent Antibody Responses and Enhanced Protection in TRIM5 Restrictive Macaques. *Journal of Virology*, **2017**, 91,	6.6	58
105	B cell-specific expression of B7-2 is required for follicular Th cell function in response to vaccinia virus. *Journal of Immunology*, **2011**, 186, 5294-303	5.3	57
104	Reversible Reprogramming of Circulating Memory T Follicular Helper Cell Function during Chronic HIV Infection. *Journal of Immunology*, **2015**, 195, 5625-36	5.3	55
103	Uncovering the interplay between CD8, CD4 and antibody responses to complex pathogens. *Future Microbiology*, **2010**, 5, 221-39	2.9	55
102	OX40 facilitates control of a persistent virus infection. *PLoS Pathogens*, **2012**, 8, e1002913	7.6	51

101	Th1 versus Th2 T cell polarization by whole-cell and acellular childhood pertussis vaccines persists upon re-immunization in adolescence and adulthood. *Cellular Immunology*, **2016**, 304-305, 35-43	4.4	51
100	Using a combined computational-experimental approach to predict antibody-specific B cell epitopes. *Structure*, **2014**, 22, 646-57	5.2	50
99	Recurrent group A tonsillitis is an immunosusceptibility disease involving antibody deficiency and aberrant T cells. *Science Translational Medicine*, **2019**, 11,	17.5	49
98	The poliovirus replication machinery can escape inhibition by an antiviral drug that targets a host cell protein. *Journal of Virology*, **2004**, 78, 3378-86	6.6	48
97	T cells control the generation of nanomolar-affinity anti-glycan antibodies. *Journal of Clinical Investigation*, **2017**, 127, 1491-1504	15.9	47
96	Monkeypox-induced immunity and failure of childhood smallpox vaccination to provide complete protection. *Vaccine Journal*, **2007**, 14, 1318-27		44
95	A TRAF-like motif of the inducible costimulator ICOS controls development of germinal center TFH cells via the kinase TBK1. *Nature Immunology*, **2016**, 17, 825-33	19.1	44
94	When designing vaccines, consider the starting material: the human B cell repertoire. *Current Opinion in Immunology*, **2018**, 53, 209-216	7.8	44
93	Hypogammaglobulinemia and exacerbated CD8 T-cell-mediated immunopathology in SAP-deficient mice with chronic LCMV infection mimics human XLP disease. *Blood*, **2006**, 108, 3085-93	2.2	42
92	Cutting Edge: NFAT Transcription Factors Promote the Generation of Follicular Helper T Cells in Response to Acute Viral Infection. *Journal of Immunology*, **2016**, 196, 2015-9	5.3	40
91	Differential cell-intrinsic regulations of germinal center B and T cells by miR-146a and miR-146b. *Nature Communications*, **2018**, 9, 2757	17.4	40
90	Heavily isotype-dependent protective activities of human antibodies against vaccinia virus extracellular virion antigen B5. *Journal of Virology*, **2009**, 83, 12355-67	6.6	40
89	3M-052, a synthetic TLR-7/8 agonist, induces durable HIV-1 envelope-specific plasma cells and humoral immunity in nonhuman primates. *Science Immunology*, **2020**, 5,	28	38
88	Poliovirus vaccine strains as mucosal vaccine vectors and their potential use to develop an AIDS vaccine. *Advanced Drug Delivery Reviews*, **2004**, 56, 835-52	18.5	38
87	Ezh2 programs T differentiation by integrating phosphorylation-dependent activation of Bcl6 and polycomb-dependent repression of p19Arf. *Nature Communications*, **2018**, 9, 5452	17.4	38
86	BALDR: a computational pipeline for paired heavy and light chain immunoglobulin reconstruction in single-cell RNA-seq data. *Genome Medicine*, **2018**, 10, 20	14.4	37
85	Definition of epitopes and antigens recognized by vaccinia specific immune responses: their conservation in variola virus sequences, and use as a model system to study complex pathogens. *Vaccine*, **2009**, 27 Suppl 6, G21-6	4.1	37
84	Modulation of SAP dependent T:B cell interactions as a strategy to improve vaccination. *Current Opinion in Virology*, **2013**, 3, 363-70	7.5	35

83	Allergen-specific immunotherapy modulates the balance of circulating Tfh and Tfr cells. *Journal of Allergy and Clinical Immunology*, **2018**, 141, 775-777.e6	11.5	33
82	The 1-1-1 fallacy. *Immunological Reviews*, **2012**, 247, 133-42	11.3	33
81	Early lymphoid responses and germinal center formation correlate with lower viral load set points and better prognosis of simian immunodeficiency virus infection. *Journal of Immunology*, **2014**, 193, 797-806	5.3	33
80	Combination therapy of vaccinia virus infection with human anti-H3 and anti-B5 monoclonal antibodies in a small animal model. *Antiviral Therapy*, **2010**, 15, 661-75	1.6	33
79	SARS-CoV-2 infection generates tissue-localized immunological memory in humans. *Science Immunology*, **2021**, 6, eabl9105	28	33
78	Definition of Human Epitopes Recognized in Tetanus Toxoid and Development of an Assay Strategy to Detect Ex Vivo Tetanus CD4+ T Cell Responses. *PLoS ONE*, **2017**, 12, e0169086	3.7	32
77	Dances with cytokines, featuring TFH cells, IL-21, IL-4 and B cells. *Nature Immunology*, **2016**, 17, 1135-6	19.1	32
76	Bcl-6 is the nexus transcription factor of T follicular helper cells via repressor-of-repressor circuits. *Nature Immunology*, **2020**, 21, 777-789	19.1	30
75	Exogenous OX40 stimulation during lymphocytic choriomeningitis virus infection impairs follicular Th cell differentiation and diverts CD4 T cells into the effector lineage by upregulating Blimp-1. *Journal of Immunology*, **2013**, 191, 5026-35	5.3	29
74	Do Memory CD4 T Cells Keep Their Cell-Type Programming: Plasticity versus Fate Commitment? Complexities of Interpretation due to the Heterogeneity of Memory CD4 T Cells, Including T Follicular Helper Cells. *Cold Spring Harbor Perspectives in Biology*, **2018**, 10,	10.2	27
73	Rapid Germinal Center and Antibody Responses in Non-human Primates after a Single Nanoparticle Vaccine Immunization. *Cell Reports*, **2019**, 29, 1756-1766.e8	10.6	27
72	Factors in B cell competition and immunodominance. *Immunological Reviews*, **2020**, 296, 120-131	11.3	25
71	The smallpox vaccine induces an early neutralizing IgM response. *Vaccine*, **2009**, 28, 140-7	4.1	25
70	Chronic lymphocytic choriomeningitis virus infection actively down-regulates CD4+ T cell responses directed against a broad range of epitopes. *Journal of Immunology*, **2007**, 179, 1058-67	5.3	24
69	Cutting edge: T follicular helper cell differentiation is defective in the absence of Bcl6 BTB repressor domain function. *Journal of Immunology*, **2015**, 194, 5599-603	5.3	23
68	Potent neutralization of vaccinia virus by divergent murine antibodies targeting a common site of vulnerability in L1 protein. *Journal of Virology*, **2014**, 88, 11339-55	6.6	22
67	Manganese-dependent polioviruses caused by mutations within the viral polymerase. *Journal of Virology*, **2003**, 77, 5378-88	6.6	22
66	Increased peripheral blood neutrophil activation phenotypes and NETosis in critically ill COVID-19 patients: a case series and review of the literature. *Clinical Infectious Diseases*, **2021**,	11.6	21

65	B cells expressing authentic naive human VRC01-class BCRs can be recruited to germinal centers and affinity mature in multiple independent mouse models. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 22920-22931	11.5	20
64	Targeting HIV Env immunogens to B cell follicles in nonhuman primates through immune complex or protein nanoparticle formulations. *Npj Vaccines*, **2020**, 5, 72	9.5	20
63	Bcl6 middle domain repressor function is required for T follicular helper cell differentiation and utilizes the corepressor MTA3. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 13324-9	11.5	19
62	Unusual features of vaccinia virus extracellular virion form neutralization resistance revealed in human antibody responses to the smallpox vaccine. *Journal of Virology*, **2013**, 87, 1569-85	6.6	18
61	Structural and biochemical characterization of the vaccinia virus envelope protein D8 and its recognition by the antibody LA5. *Journal of Virology*, **2012**, 86, 8050-8	6.6	18
60	Bcl6-Mediated Transcriptional Regulation of Follicular Helper T cells (T). *Trends in Immunology*, **2021**, 42, 336-349	14.4	16
59	In vivo RNAi screens: concepts and applications. *Trends in Immunology*, **2015**, 36, 315-22	14.4	15
58	Differential T-Cell Reactivity to Endemic Coronaviruses and SARS-CoV-2 in Community and Health Care Workers. *Journal of Infectious Diseases*, **2021**, 224, 70-80	7	14
57	Normal human lymph node T follicular helper cells and germinal center B cells accessed via fine needle aspirations. *Journal of Immunological Methods*, **2020**, 479, 112746	2.5	13
56	Reinvigorating NIH Grant Peer Review. *Immunity*, **2020**, 52, 1-3	32.3	13
55	An epitope conserved in orthopoxvirus A13 envelope protein is the target of neutralizing and protective antibodies. *Virology*, **2011**, 418, 67-73	3.6	13
54	CRISPR-Mediated Slamf1−/−Slamf5−/−Slamf6−/− Triple Gene Disruption Reveals NKT Cell Defects but Not T Follicular Helper Cell Defects. *PLoS ONE*, **2016**, 11, e0156074	3.7	13
53	AI-guided discovery of the invariant host response to viral pandemics. *EBioMedicine*, **2021**, 68, 103390	8.8	13
52	Low dose mRNA-1273 COVID-19 vaccine generates durable T cell memory and antibodies enhanced by pre-existing crossreactive T cell memory		13
51	Protection of rabbits and immunodeficient mice against lethal poxvirus infections by human monoclonal antibodies. *PLoS ONE*, **2012**, 7, e48706	3.7	12
50	Polyfunctional CD4+ T cell responses to a set of pathogenic arenaviruses provide broad population coverage. *Immunome Research*, **2010**, 6, 4		12
49	Modulating the quantity of HIV Env-specific CD4 T cell help promotes rare B cell responses in germinal centers. *Journal of Experimental Medicine*, **2021**, 218,	16.6	12
48	SARS-CoV-2 vaccination induces immunological memory able to cross-recognize variants from Alpha to Omicron		11

47	Structural and Functional Characterization of Anti-A33 Antibodies Reveal a Potent Cross-Species Orthopoxviruses Neutralizer. *PLoS Pathogens*, **2015**, 11, e1005148	7.6	11
46	Ahead of the Curve **2001**,		11
45	Comprehensive analysis of T cell immunodominance and immunoprevalence of SARS-CoV-2 epitopes in COVID-19 cases **2020**,		11
44	Protective murine and human monoclonal antibodies against eczema vaccinatum. *Antiviral Therapy*, **2011**, 16, 67-75	1.6	10
43	Linear Epitopes in Vaccinia Virus A27 Are Targets of Protective Antibodies Induced by Vaccination against Smallpox. *Journal of Virology*, **2016**, 90, 4334-4345	6.6	10
42	Multiplexed CRISPR/CAS9-mediated engineering of pre-clinical mouse models bearing native human B cell receptors. *EMBO Journal*, **2021**, 40, e105926	13	9
41	Retroviral vector expression in TCR transgenic CD4+ T cells. *Methods in Molecular Biology*, **2015**, 1291, 49-61	1.4	8
40	Systems Biology Methods Applied to Blood and Tissue for a Comprehensive Analysis of Immune Response to Hepatitis B Vaccine in Adults. *Frontiers in Immunology*, **2020**, 11, 580373	8.4	8
39	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM. *Nature Communications*, **2021**, 12, 4817	17.4	8
38	Innovative approaches to track lymph node germinal center responses to evaluate development of broadly neutralizing antibodies in human HIV vaccine trials. *Vaccine*, **2018**, 36, 5671-5677	4.1	7
37	Murine anti-vaccinia virus D8 antibodies target different epitopes and differ in their ability to block D8 binding to CS-E. *PLoS Pathogens*, **2014**, 10, e1004495	7.6	7
36	Response to Comment on "A Cytokine-Independent Approach To Identify Antigen-Specific Human Germinal Center T Follicular Helper Cells and Rare Antigen-Specific CD4+ T Cells in Blood". *Journal of Immunology*, **2016**, 197, 2558	5.3	6
35	AI-guided discovery of the invariant host response to viral pandemics **2021**,		6
34	Correlates of protection against SARS - CoV -2 infection and COVID-19 disease. *Immunological Reviews*,	11.3	6
33	A particulate saponin/TLR agonist vaccine adjuvant alters lymph flow and modulates adaptive immunity. *Science Immunology*, **2021**, 6, eabf1152	28	5
32	Vaccine genetics of IGHV1-2 VRC01-class broadly neutralizing antibody precursor naïve human B cells. *Npj Vaccines*, **2021**, 6, 113	9.5	5
31	Raging evolution of a B cell response to a viral infection. *Nature Reviews Immunology*, **2018**, 18, 79	36.5	4
30	Slow delivery immunization enhances HIV neutralizing antibody and germinal center responses via modulation of immunodominance		4

29	Bromodomain protein BRD4 directs and sustains CD8 T cell differentiation during infection. *Journal of Experimental Medicine*, **2021**, 218,	16.6	4
28	Broadly neutralizing antibodies to SARS-related viruses can be readily induced in rhesus macaques		4
27	HIV vaccinology: 2021 update. *Seminars in Immunology*, **2021**, 51, 101470	10.7	3
26	Antibody responses induced by SHIV infection are more focused than those induced by soluble native HIV-1 envelope trimers in non-human primates. *PLoS Pathogens*, **2021**, 17, e1009736	7.6	3
25	Phosphate-mediated coanchoring of RBD immunogens and molecular adjuvants to alum potentiates humoral immunity against SARS-CoV-2. *Science Advances*, **2021**, 7, eabj6538	14.3	3
24	Harnessing Activin A Adjuvanticity to Promote Antibody Responses to BG505 HIV Envelope Trimers. *Frontiers in Immunology*, **2020**, 11, 1213	8.4	2
23	From structure to sequence: Antibody discovery using cryoEM.. *Science Advances*, **2022**, 8, eabk2039	14.3	2
22	Targeting HIV Env immunogens to B cell follicles in non-human primates through immune complex or protein nanoparticle formulations		2
21	Vaccine genetics of IGHV1-2 VRC01-class broadly neutralizing antibody precursor naïve human B cells		2
20	Humoral and cellular immune memory to four COVID-19 vaccines. **2022**,		2
19	Development of an animal model of progressive vaccinia in nu/nu mice and the use of bioluminescence imaging for assessment of the efficacy of monoclonal antibodies against vaccinial B5 and L1 proteins. *Antiviral Research*, **2017**, 144, 8-20	10.8	1
18	Characterization of murine antibody responses to vaccinia virus envelope protein A14 reveals an immunodominant antigen lacking of effective neutralization targets. *Virology*, **2018**, 518, 284-292	3.6	1
17	BCL6 Orchestrates Tfh Differentiation Via Multiple Distinct Mechanisms. *Blood*, **2014**, 124, 4137-4137	2.2	1
16	Longitudinally Tracked, Rapid and Robust Antigen-Specific Germinal Center Responses in Non-Human Primates after a Single Nanoparticle Vaccine Immunization. *SSRN Electronic Journal*,	1	1
15	Evidence that recurrent Group A streptococcus tonsillitis is an immunosusceptibility disease involving antibody deficiency and aberrant Tfh cells		1
14	Vaccine-induced protection from homologous Tier 2 simian-human immunodeficiency virus challenge in nonhuman primates		1
13	B cells expressing authentic naive human VRC01-class BCRs can be primed and recruited to germinal centers in multiple independent mouse models		1
12	From Structure to Sequence: Identification of polyclonal antibody families using cryoEM		1

List of Publications

11	Structure-function characterization of three human antibodies targeting the vaccinia virus adhesion molecule D8. *Journal of Biological Chemistry*, **2018**, 293, 390-401	5.4	1
10	Profiling Transcription Initiation in Peripheral Leukocytes Reveals Severity-Associated Cis-Regulatory Elements in Critical COVID-19 **2021**,		1
9	Revealing T follicular helper cells with BCL6. *Nature Reviews Immunology*, **2021**, 21, 616-617	36.5	1
8	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM		1
7	Mucosal and systemic responses to SARS-CoV-2 vaccination in infection naïve and experienced individuals		1
6	Highly mutated antibodies capable of neutralizing N276 glycan-deficient HIV after a single immunization with an Env trimer.. *Cell Reports*, **2022**, 38, 110485	10.6	0
5	African Early Infection Cohort as a Platform for Vaccine Discovery: The IAVI Protocol C Experience. *AIDS Research and Human Retroviruses*, **2014**, 30, A31-A31	1.6	
4	Virus-based vectors for gene expression in mammalian cells: Poliovirus. *New Comprehensive Biochemistry*, **2003**, 169-187		
3	T cell independent B cell response to an RNA-binding viral protein (Vaccinia E3). *FASEB Journal*, **2008**, 22, 861.2	0.9	
2	Important roles for Fyn in CD4 T cell activation and helper functions in vivo. *FASEB Journal*, **2008**, 22, 1064.19	0.9	
1	Protection from vaccinia virus-induced severe skin lesions by natural killer cells in a mouse model of eczema vaccinatum. *FASEB Journal*, **2008**, 22, 670.17	0.9	