

Catherine A Blish

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

13,787
citations

101543

36
h-index

45317

90
g-index

130
all docs

130
docs citations

130
times ranked

19353
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated analysis of multimodal single-cell data. <i>Cell</i> , 2021, 184, 3573-3587.e29.	28.9	5,912
2	A single-cell atlas of the peripheral immune response in patients with severe COVID-19. <i>Nature Medicine</i> , 2020, 26, 1070-1076.	30.7	1,300
3	Intrinsic retroviral reactivation in human preimplantation embryos and pluripotent cells. <i>Nature</i> , 2015, 522, 221-225.	27.8	507
4	Genetic and Environmental Determinants of Human NK Cell Diversity Revealed by Mass Cytometry. <i>Science Translational Medicine</i> , 2013, 5, 208ra145.	12.4	491
5	The immunology and immunopathology of COVID-19. <i>Science</i> , 2022, 375, 1122-1127.	12.6	434
6	Defining the features and duration of antibody responses to SARS-CoV-2 infection associated with disease severity and outcome. <i>Science Immunology</i> , 2020, 5, .	11.9	404
7	Progenitor identification and SARS-CoV-2 infection in human distal lung organoids. <i>Nature</i> , 2020, 588, 670-675.	27.8	273
8	Proinflammatory IgG Fc structures in patients with severe COVID-19. <i>Nature Immunology</i> , 2021, 22, 67-73.	14.5	239
9	Human B Cell Clonal Expansion and Convergent Antibody Responses to SARS-CoV-2. <i>Cell Host and Microbe</i> , 2020, 28, 516-525.e5.	11.0	219
10	Cytokine profile in plasma of severe COVID-19 does not differ from ARDS and sepsis. <i>JCI Insight</i> , 2020, 5, .	5.0	196
11	The Innate Immune System: Fighting on the Front Lines or Fanning the Flames of COVID-19?. <i>Cell Host and Microbe</i> , 2020, 27, 863-869.	11.0	192
12	Human NK cell repertoire diversity reflects immune experience and correlates with viral susceptibility. <i>Science Translational Medicine</i> , 2015, 7, 297ra115.	12.4	177
13	Breadth of Neutralizing Antibody Response to Human Immunodeficiency Virus Type 1 Is Affected by Factors Early in Infection but Does Not Influence Disease Progression. <i>Journal of Virology</i> , 2009, 83, 10269-10274.	3.4	165
14	Multi-omic profiling reveals widespread dysregulation of innate immunity and hematopoiesis in COVID-19. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	139
15	Humanized mouse model supports development, function, and tissue residency of human natural killer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9626-E9634.	7.1	138
16	Human natural killer cells mediate adaptive immunity to viral antigens. <i>Science Immunology</i> , 2019, 4, .	11.9	135
17	Zika Virus Infection Induces Cranial Neural Crest Cells to Produce Cytokines at Levels Detrimental for Neurogenesis. <i>Cell Host and Microbe</i> , 2016, 20, 423-428.	11.0	113
18	Peginterferon Lambda-1a for treatment of outpatients with uncomplicated COVID-19: a randomized placebo-controlled trial. <i>Nature Communications</i> , 2021, 12, 1967.	12.8	107

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19	Enhanced natural killer-cell and T-cell responses to influenza A virus during pregnancy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14506-14511.	7.1	95
20	Antibodies elicited by SARS-CoV-2 infection or mRNA vaccines have reduced neutralizing activity against Beta and Omicron pseudoviruses. Science Translational Medicine, 2022, 14, eabn7842.	12.4	92
21	Redefining Memory: Building the Case for Adaptive NK Cells. Journal of Virology, 2017, 91, .	3.4	89
22	Enhancing Exposure of HIV-1 Neutralization Epitopes through Mutations in gp41. PLoS Medicine, 2008, 5, e9.	8.4	85
23	Human Immunodeficiency Virus Type 1 Superinfection Occurs despite Relatively Robust Neutralizing Antibody Responses. Journal of Virology, 2008, 82, 12094-12103.	3.4	82
24	Coordinated Regulation of NK Receptor Expression in the Maturing Human Immune System. Journal of Immunology, 2014, 193, 4871-4879.	0.8	75
25	HIV-1 subtype A envelope variants from early in infection have variable sensitivity to neutralization and to inhibitors of viral entry. Aids, 2007, 21, 693-702.	2.2	66
26	A novel human <i>IL2RB</i> mutation results in T and NK cell-driven immune dysregulation. Journal of Experimental Medicine, 2019, 216, 1255-1267.	8.5	64
27	Application of Mass Cytometry (CyTOF) for Functional and Phenotypic Analysis of Natural Killer Cells. Methods in Molecular Biology, 2016, 1441, 13-26.	0.9	61
28	Hormonal Contraception and HIV-1 Transmission. American Journal of Reproductive Immunology, 2011, 65, 302-307.	1.2	60
29	Increased Proinflammatory Responses of Monocytes and Plasmacytoid Dendritic Cells to Influenza A Virus Infection During Pregnancy. Journal of Infectious Diseases, 2016, 214, 1666-1671.	4.0	57
30	Diversification of human NK cells: Lessons from deep profiling. Journal of Leukocyte Biology, 2018, 103, 629-641.	3.3	56
31	SARS-CoV-2 RNAemia Predicts Clinical Deterioration and Extrapulmonary Complications from COVID-19. Clinical Infectious Diseases, 2022, 74, 218-226.	5.8	51
32	Cross-Subtype Neutralization Sensitivity despite Monoclonal Antibody Resistance among Early Subtype A, C, and D Envelope Variants of Human Immunodeficiency Virus Type 1. Journal of Virology, 2009, 83, 7783-7788.	3.4	50
33	The Breadth and Potency of Passively Acquired Human Immunodeficiency Virus Type 1-Specific Neutralizing Antibodies Do Not Correlate with the Risk of Infant Infection. Journal of Virology, 2011, 85, 5252-5261.	3.4	50
34	Pregnancy Does Not Attenuate the Antibody or Plasmablast Response to Inactivated Influenza Vaccine. Journal of Infectious Diseases, 2015, 212, 861-870.	4.0	49
35	NKG2A-Expressing Natural Killer Cells Dominate the Response to Autologous Lymphoblastoid Cells Infected with Epstein-Barr Virus. Frontiers in Immunology, 2016, 7, 607.	4.8	46
36	Differential Induction of IFN- α and Modulation of CD112 and CD54 Expression Govern the Magnitude of NK Cell IFN- β Response to Influenza A Viruses. Journal of Immunology, 2018, 201, 2117-2131.	0.8	42

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37	Immunogenicity and Clinical Efficacy of Influenza Vaccination in Pregnancy. <i>Frontiers in Immunology</i> , 2015, 6, 289.	4.8	41
38	A historical perspective on ACE2 in the COVID-19 era. <i>Journal of Human Hypertension</i> , 2021, 35, 935-939.	2.2	41
39	Mass Cytometry Analytical Approaches Reveal Cytokine-Induced Changes in Natural Killer Cells. <i>Cytometry Part B - Clinical Cytometry</i> , 2017, 92, 57-67.	1.5	40
40	TIGIT is upregulated by HIV-1 infection and marks a highly functional adaptive and mature subset of natural killer cells. <i>Aids</i> , 2020, 34, 801-813.	2.2	40
41	The impact of HIV-1 infection and exposure on natural killer (NK) cell phenotype in Kenyan infants during the first year of life. <i>Frontiers in Immunology</i> , 2012, 3, 399.	4.8	39
42	Synthetic Siglec-9 Agonists Inhibit Neutrophil Activation Associated with COVID-19. <i>ACS Central Science</i> , 2021, 7, 650-657.	11.3	39
43	Genital Inflammation Predicts HIV-1 Shedding Independent of Plasma Viral Load and Systemic Inflammation. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2012, 61, 436-440.	2.1	36
44	Pregnancy-Induced Alterations in NK Cell Phenotype and Function. <i>Frontiers in Immunology</i> , 2019, 10, 2469.	4.8	36
45	The newborn human NK cell repertoire is phenotypically formed but functionally reduced. <i>Cytometry Part B - Clinical Cytometry</i> , 2017, 92, 33-41.	1.5	35
46	Transmission of HIV-1 in the Face of Neutralizing Antibodies. <i>Current HIV Research</i> , 2007, 5, 578-587.	0.5	33
47	Facile discovery of surrogate cytokine agonists. <i>Cell</i> , 2022, 185, 1414-1430.e19.	28.9	33
48	Charge-altering releasable transporters enable phenotypic manipulation of natural killer cells for cancer immunotherapy. <i>Blood Advances</i> , 2020, 4, 4244-4255.	5.2	32
49	Changes in Plasma Cytokines after Treatment of <i>Ascaris lumbricoides</i> Infection in Individuals with HIV-1 Infection. <i>Journal of Infectious Diseases</i> , 2010, 201, 1816-1821.	4.0	29
50	The proximal proteome of 17 SARS-CoV-2 proteins links to disrupted antiviral signaling and host translation. <i>PLoS Pathogens</i> , 2021, 17, e1009412.	4.7	27
51	The natural killer cell response to West Nile virus in young and old individuals with or without a prior history of infection. <i>PLoS ONE</i> , 2017, 12, e0172625.	2.5	26
52	Clinical characteristics associated with COVID-19 severity in California. <i>Journal of Clinical and Translational Science</i> , 2021, 5, e3.	0.6	26
53	The B.1.427/1.429 (epsilon) SARS-CoV-2 variants are more virulent than ancestral B.1 (614G) in Syrian hamsters. <i>PLoS Pathogens</i> , 2022, 18, e1009914.	4.7	26
54	Human NK Cell Diversity in Viral Infection: Ramifications of Ramification. <i>Frontiers in Immunology</i> , 2016, 7, 66.	4.8	25

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55	Natural Killer Cell Diversity in Viral Infection: Why and How Much?. <i>Pathogens and Immunity</i> , 2016, 1, 165.	3.1	25
56	SARS-CoV-2 Subgenomic RNA Kinetics in Longitudinal Clinical Samples. <i>Open Forum Infectious Diseases</i> , 2021, 8, ofab310.	0.9	24
57	Comparative Immunogenicity of Subtype A Human Immunodeficiency Virus Type 1 Envelope Exhibiting Differential Exposure of Conserved Neutralization Epitopes. <i>Journal of Virology</i> , 2010, 84, 2573-2584.	3.4	21
58	Antibody-Dependent Cell-Mediated Virus Inhibition Antibody Activity Does Not Correlate With Risk of HIV-1 Superinfection. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2013, 63, 31-33.	2.1	20
59	Reinvigorating NIH Grant Peer Review. <i>Immunity</i> , 2020, 52, 1-3.	14.3	20
60	Broad-spectrum CRISPR-mediated inhibition of SARS-CoV-2 variants and endemic coronaviruses in vitro. <i>Nature Communications</i> , 2022, 13, 2766.	12.8	20
61	The role of amino acid changes in the human immunodeficiency virus type 1 transmembrane domain in antibody binding and neutralization. <i>Virology</i> , 2011, 421, 235-244.	2.4	19
62	Maintaining a Robust Pipeline of Future Physician-Scientists. <i>Journal of Infectious Diseases</i> , 2018, 218, S40-S43.	4.0	18
63	Natural killer cell phenotype is altered in HIV-exposed seronegative women. <i>PLoS ONE</i> , 2020, 15, e0238347.	2.5	18
64	Anti-nucleocapsid antibody levels and pulmonary comorbid conditions are linked to post-“COVID-19 syndrome. <i>JCI Insight</i> , 2022, 7, .	5.0	18
65	TNF- α CD4+ T α cells dominate the SARS-CoV-2 specific T cell response in COVID-19 outpatients and are associated with durable antibodies. <i>Cell Reports Medicine</i> , 2022, 3, 100640.	6.5	15
66	CytoGLMM: conditional differential analysis for flow and mass cytometry experiments. <i>BMC Bioinformatics</i> , 2021, 22, 137.	2.6	14
67	Association Between SARS-CoV-2 RNAemia and Postacute Sequelae of COVID-19. <i>Open Forum Infectious Diseases</i> , 2022, 9, ofab646.	0.9	14
68	Cellular immune responses and susceptibility to HIV-1 superinfection. <i>Aids</i> , 2012, 26, 643-646.	2.2	12
69	HLA Upregulation During Dengue Virus Infection Suppresses the Natural Killer Cell Response. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 268.	3.9	12
70	Enhancing natural killer cell function with gp41-targeting bispecific antibodies to combat HIV infection. <i>Aids</i> , 2020, 34, 1313-1323.	2.2	12
71	Deep Phenotypic Analysis of Blood and Lymphoid T and NK Cells From HIV+ Controllers and ART-Suppressed Individuals. <i>Frontiers in Immunology</i> , 2022, 13, 803417.	4.8	12
72	Treated HIV Infection Alters Phenotype but Not HIV-Specific Function of Peripheral Blood Natural Killer Cells. <i>Frontiers in Immunology</i> , 2020, 11, 829.	4.8	10

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73	Identification of the first cases of complete CD16A deficiency: Association with persistent EBV infection. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, 1288-1292.	2.9	10
74	Characterization of the Impact of Daclizumab Beta on Circulating Natural Killer Cells by Mass Cytometry. <i>Frontiers in Immunology</i> , 2020, 11, 714.	4.8	10
75	Mass Cytometry Analysis of the NK Cell Receptorâ€“Ligand Repertoire Reveals Unique Differences between Dengue-Infected Children and Adults. <i>ImmunoHorizons</i> , 2020, 4, 634-647.	1.8	7
76	Association between Latent Proviral Characteristics and Immune Activation in Antiretrovirus-Treated Human Immunodeficiency Virus Type 1-Infected Adults. <i>Journal of Virology</i> , 2014, 88, 8629-8639.	3.4	6
77	Universal Principled Review: A Community-Driven Method to Improve Peer Review. <i>Cell</i> , 2019, 179, 1441-1445.	28.9	6
78	Profiling of the Human Natural Killer Cell Receptor-Ligand Repertoire. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	6
79	Stereotypic Expansion of T Regulatory and Th17 Cells during Infancy Is Disrupted by HIV Exposure and Gut Epithelial Damage. <i>Journal of Immunology</i> , 2022, 208, 27-37.	0.8	6
80	Association between Cellular Immune Activation, Target Cell Frequency, and Risk of Human Immunodeficiency Virus Type 1 Superinfection. <i>Journal of Virology</i> , 2014, 88, 5894-5899.	3.4	5
81	Delayed BCG Vaccinationâ€“Time to Take a Shot. <i>Journal of Infectious Diseases</i> , 2015, 211, 335-337.	4.0	5
82	Safety of ACE-I and ARB medications in COVID-19: A retrospective cohort study of inpatients and outpatients in California. <i>Journal of Clinical and Translational Science</i> , 2021, 5, e8.	0.6	5
83	Innovative vaccine approachesâ€“a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2022, 1511, 59-86.	3.8	5
84	Natural Killer Cell Receptors and Ligands Are Associated With Markers of HIV-1 Persistence in Chronically Infected ART Suppressed Patients. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 757846.	3.9	5
85	Systemic Cytokine Levels Show Limited Correlation With Risk of HIV-1 Acquisition. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2014, 66, 135-139.	2.1	4
86	CytoF: Single Cell Mass Cytometry for Evaluation of Complex Innate Cellular Phenotypes. , 2016, , 27-39.		4
87	Use of Outpatient-Derived COVID-19 Convalescent Plasma in COVID-19 Patients Before Seroconversion. <i>Frontiers in Immunology</i> , 2021, 12, 739037.	4.8	3
88	Influenza-Induced Interferon Lambda Response Is Associated With Longer Time to Delivery Among Pregnant Kenyan Women. <i>Frontiers in Immunology</i> , 2020, 11, 452.	4.8	1
89	Gastrointestinal Perforation in a Patient With Antinuclear Matrix Protein 2 Antibodyâ€“Positive Dermatomyositis. <i>Arthritis Care and Research</i> , 2022, 74, 1409-1415.	3.4	1
90	HIV-1 Transmission Goes Retro (Steps Back). <i>Journal of Infectious Diseases</i> , 2012, 206, 1336-1338.	4.0	0