Nicole Baumgarth

List of Publications by Year
in descending order

74	6,855	70961 41	88477 70
papers	citations	h-index	g-index

80	80	80	9503
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The double life of a B-1 cell: self-reactivity selects for protective effector functions. Nature Reviews Immunology, 2011, 11, 34-46.	10.6	825
2	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). European Journal of Immunology, 2019, 49, 1457-1973.	1.6	766
3	B-1 and B-2 Cellâ€“Derived Immunoglobulin M Antibodies Are Nonredundant Components of the Protective Response to Influenza Virus Infection. Journal of Experimental Medicine, 2000, 192, 271-280.	4.2	521
4	Inherent specificities in natural antibodies: a key to immune defense against pathogen invasion. Seminars in Immunopathology, 2005, 26, 347-362.	4.0	456
5	A practical approach to multicolor flow cytometry for immunophenotyping. Journal of Immunological Methods, 2000, 243, 77-97.	0.6	414
6	Dual role for B-1a cells in immunity to influenza virus infection. Journal of Experimental Medicine, 2008, 205, 3053-3064.	4.2	223
7	CD72-Deficient Mice Reveal Nonredundant Roles of CD72 in B Cell Development and Activation. Immunity, 1999, 11, 495-506.	6.6	206
8	A Population of Murine T Cells That Recognize an Inducible MHC Class Ib Molecule. Science, 2000, 287, 314-316.	6.0	171
9	Type I IFN Receptor Signals Directly Stimulate Local B Cells Early following Influenza Virus Infection. Journal of Immunology, 2006, 176, 4343-4351.	0.4	170
10	Bâ€•1 cells in the bone marrow are a significant source of natural IgM. European Journal of Immunology, 2012, 42, 120-129.	1.6	170
11	B-1 Cell Heterogeneity and the Regulation of Natural and Antigen-Induced IgM Production. Frontiers in Immunology, 2016, 7, 324.	2.2	158
12	B Cellâ€“dependent T Cell Responses. Journal of Experimental Medicine, 2002, 196, 1277-1290.	4.2	114
13	An Early CD4+ T Cellâ€“dependent Immunoglobulin A Response to Influenza Infection in the Absence of Key Cognate Tâ€“B Interactions. Journal of Experimental Medicine, 2003, 198, 1011-1021.	4.2	104
14	A Hard(y) Look at B-1 Cell Development and Function. Journal of Immunology, 2017, 199, 3387-3394.	0.4	104
15	B7-1/2 (CD80/CD86) Direct Signaling to B Cells Enhances IgG Secretion. Journal of Immunology, 2009, 183, 7661-7671.	0.4	90
16	Delays and Diversions Mark the Development of B Cell Responses to Borrelia burgdorferi Infection. Journal of Immunology, 2012, 188, 5612-5622.	0.4	89
17	Suppression of Long-Lived Humoral Immunity Following Borrelia burgdorferi Infection. PLoS Pathogens, 2015, 11, e1004976.	2.1	89
18	The Multifaceted B Cell Response to Influenza Virus. Journal of Immunology, 2019, 202, 351-359.	0.4	88

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19	Blimp-1â€“dependent and â€“independent natural antibody production by B-1 and B-1â€“derived plasma cells. Journal of Experimental Medicine, 2017, 214, 2777-2794.	4.2	85
20	Natural IgM Prevents Autoimmunity by Enforcing B Cell Central Tolerance Induction. Journal of Immunology, 2015, 194, 1489-1502.	0.4	79
21	Bâ€cell fate decisions following influenza virus infection. European Journal of Immunology, 2010, 40, 366-377.	1.6	77
22	Protective B Cell Responses to Fluâ€”No Fluke!. Journal of Immunology, 2011, 186, 3823-3829.	0.4	75
23	Characteristics of natural antibodyâ€“secreting cells. Annals of the New York Academy of Sciences, 2015, 1362, 132-142.	1.8	74
24	B-1 cell responses to infections. Current Opinion in Immunology, 2019, 57, 23-31.	2.4	72
25	How specific is too specific? Bâ€cell responses to viral infections reveal the importance of breadth over depth. Immunological Reviews, 2013, 255, 82-94.	2.8	69
26	The IgM receptor FcÎ¼R limits tonic BCR signaling by regulating expression of the IgM BCR. Nature Immunology, 2017, 18, 321-333.	7.0	69
27	Borrelia burgdorferi Manipulates Innate and Adaptive Immunity to Establish Persistence in Rodent Reservoir Hosts. Frontiers in Immunology, 2017, 8, 116.	2.2	69
28	Antibody Responses to SARS-CoV-2: Letâ€™s Stick to Known Knowns. Journal of Immunology, 2020, 205, 2342-2350.	0.4	69
29	Enumeration and characterization of virus-specific B cells by multicolor flow cytometry. Journal of Immunological Methods, 2005, 303, 40-52.	0.6	65
30	Influenza Virus Infection Causes Global Respiratory Tract B Cell Response Modulation via Innate Immune Signals. Journal of Immunology, 2007, 178, 1457-1467.	0.4	61
31	Lymphoadenopathy during Lyme Borreliosis Is Caused by Spirochete Migration-Induced Specific B Cell Activation. PLoS Pathogens, 2011, 7, e1002066.	2.1	61
32	Infection-induced type I interferons activate CD11b on B-1 cells for subsequent lymph node accumulation. Nature Communications, 2015, 6, 8991.	5.8	60
33	Innate-Like B Cells and Their Rules of Engagement. Advances in Experimental Medicine and Biology, 2013, 785, 57-66.	0.8	59
34	Nine color eleven parameter immunophenotyping using three laser flow cytometry. Cytometry, 1999, 36, 36-45.	1.8	58
35	Human cytomegalovirus suppresses type I interferon secretion by plasmacytoid dendritic cells through its interleukin 10 homolog. Virology, 2009, 390, 330-337.	1.1	56
36	Secreted IgM: New tricks for an old molecule. Journal of Leukocyte Biology, 2019, 106, 1021-1034.	1.5	56

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37	Recent Progress in Lyme Disease and Remaining Challenges. Frontiers in Medicine, 2021, 8, 666554.	1.2	55
38	Evaluation of intranuclear BrdU detection procedures for use in multicolor flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 249-259.	1.1	53
39	CD4⁺T Cells Promote Antibody Production but Not Sustained Affinity Maturation during Borrelia burgdorferi Infection. Infection and Immunity, 2015, 83, 48-56.	1.0	53
40	Natural and induced Bâ€1 cell immunity to infections raises questions of nature versus nurture. Annals of the New York Academy of Sciences, 2015, 1362, 188-199.	1.8	47
41	B Cell Activation and Response Regulation During Viral Infections. Viral Immunology, 2020, 33, 294-306.	0.6	47
42	B cell receptor and Toll-like receptor signaling coordinate to control distinct B-1 responses to both self and the microbiota. ELife, 2019, 8, .	2.8	45
43	Characterization of Receptor Binding Profiles of Influenza A Viruses Using An Ellipsometry-Based Label-Free Glycan Microarray Assay Platform. Biomolecules, 2015, 5, 1480-1498.	1.8	44
44	Natural IgM and the Development of B Cell-Mediated Autoimmune Diseases. Critical Reviews in Immunology, 2016, 36, 163-177.	1.0	41
45	The Shaping of a B Cell Pool Maximally Responsive to Infections. Annual Review of Immunology, 2021, 39, 103-129.	9.5	38
46	Single and Coexpression of CXCR4 and CXCR5 Identifies CD4 T Helper Cells in Distinct Lymph Node Niches during Influenza Virus Infection. Journal of Virology, 2012, 86, 7146-7157.	1.5	36
47	MyD88- and TRIF-Independent Induction of Type I Interferon Drives Naive B Cell Accumulation but Not Loss of Lymph Node Architecture in Lyme Disease. Infection and Immunity, 2014, 82, 1548-1558.	1.0	36
48	TLR induces reorganization of the IgM-BCR complex regulating murine B-1 cell responses to infections. ELife, 2019, 8, .	2.8	33
49	Rigid Interferon-Î± Subtype Responses of Human Plasmacytoid Dendritic Cells. Journal of Interferon and Cytokine Research, 2008, 28, 749-763.	0.5	30
50	Licensing delineates helper and effector NK cell subsets during viral infection. JCI Insight, 2017, 2, .	2.3	30
51	sIgMâ€“FcÎ¼R Interactions Regulate Early B Cell Activation and Plasma Cell Development after Influenza Virus Infection. Journal of Immunology, 2017, 199, 1635-1646.	0.4	29
52	Purification and Immune Phenotyping of B-1 Cells from Body Cavities of Mice. Methods in Molecular Biology, 2014, 1190, 17-34.	0.4	29
53	Synergistic Up-Regulation of CXCL10 by Virus and IFN Î³ in Human Airway Epithelial Cells. PLoS ONE, 2014, 9, e100978.	1.1	29
54	B-Cell Immunophenotyping. Methods in Cell Biology, 2004, 75, 643-662.	0.5	27

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55	Assessment of Cell Proliferation by 5â€²Bromodeoxyuridine (BrdU) Labeling for Multicolor Flow Cytometry. Current Protocols in Cytometry, 2007, 40, Unit7.31.	3.7	27
56	Highly Tissue Substructure-Specific Effects of Human Papilloma Virus in Mucosa of HIV-Infected Patients Revealed by Laser-Dissection Microscopy-Assisted Gene Expression Profiling. American Journal of Pathology, 2004, 165, 707-718.	1.9	22
57	Comprehensive Annotation of Mature Peptides and Genotypes for Zika Virus. PLoS ONE, 2017, 12, e0170462.	1.1	21
58	Immune Response to Borrelia: Lessons from Lyme Disease Spirochetes. Current Issues in Molecular Biology, 2022, 42, 145-190.	1.0	19
59	Both Bâ€1a and Bâ€1b cells exposed to Mycobacterium tuberculosis lipids differentiate into IgM antibodyâ€secreting cells. Immunology, 2018, 154, 613-623.	2.0	17
60	A natural killer T-cell subset that protects against airway hyperreactivity. Journal of Allergy and Clinical Immunology, 2019, 143, 565-576.e7.	1.5	15
61	Optimization of Emission Optics for Multicolor Flow Cytometry. Methods in Cell Biology, 2004, 75, 3-22.	0.5	13
62	Genetic mapping reveals Nfkbid as a central regulator of humoral immunity to Toxoplasma gondii. PLoS Pathogens, 2021, 17, e1010081.	2.1	8
63	Report of the Pathogenesis and Pathophysiology of Lyme Disease Subcommittee of the HHS Tick Borne Disease Working Group. Frontiers in Medicine, 2021, 8, 643235.	1.2	6
64	The role of innate signals in B cell immunity to influenza virus. Frontiers in Bioscience - Scholar, 2013, S5, 105-117.	0.8	5
65	Innate B Cells Tell ILC How Itâ€™s Done. Immunity, 2016, 45, 8-10.	6.6	4
66	Purification and Immune Phenotyping of B-1 Cells from Body Cavities of Mice. Methods in Molecular Biology, 2021, 2270, 27-45.	0.4	3
67	Secreted IgM versus BLyS in germinal center formation. Nature Immunology, 2000, 1, 179-179.	7.0	2
68	CD4 T cell responses in persistent Borrelia burgdorferi infection. Current Opinion in Immunology, 2022, 77, 102187.	2.4	2
69	Nicole Baumgarth: Tackling flu from a B cell angle. Journal of Experimental Medicine, 2008, 205, 2454-2455.	4.2	1
70	Memory Lapsesâ€”Winning the Slow Race. Immunity, 2020, 53, 902-904.	6.6	1
71	Natural Killer Cell Licensing Delineates NK â€œHelper/Repairâ€•and NK â€œEffector/Suppressorâ€•Subsets During Viral Infections. Blood, 2013, 122, 13-13.	0.6	1
72	Richard R. (Randy) Hardy 1952â€“2016. Nature Immunology, 2016, 17, 889-889.	7.0	0

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73	Transcriptional regulation of natural IgM secretion by a novel Bâ€1 cell population in the bone marrow. FASEB Journal, 2008, 22, 847.9.	0.2	0
74	B cellâ€Dendritic Cell interaction during influenza infection. FASEB Journal, 2008, 22, 857.11.	0.2	0