

Nathalie Arbour

List of Publications by Year in descending order

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82
papers

7,026
citations

71102

41
h-index

74163

75
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90
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90
docs citations

90
times ranked

10586
citing authors

#	ARTICLE	IF	CITATIONS
1	Human TH17 lymphocytes promote blood-brain barrier disruption and central nervous system inflammation. <i>Nature Medicine</i> , 2007, 13, 1173-1175.	30.7	1,442
2	TLR Signaling Tailors Innate Immune Responses in Human Microglia and Astrocytes. <i>Journal of Immunology</i> , 2005, 175, 4320-4330.	0.8	636
3	Preferential recruitment of interferon- γ -expressing T _H 17 cells in multiple sclerosis. <i>Annals of Neurology</i> , 2009, 66, 390-402.	5.3	494
4	Neuroinvasion by Human Respiratory Coronaviruses. <i>Journal of Virology</i> , 2000, 74, 8913-8921.	3.4	437
5	Activated leukocyte cell adhesion molecule promotes leukocyte trafficking into the central nervous system. <i>Nature Immunology</i> , 2008, 9, 137-145.	14.5	358
6	The blood-brain barrier induces differentiation of migrating monocytes into Th17-polarizing dendritic cells. <i>Brain</i> , 2008, 131, 785-799.	7.6	169
7	Multiple Sclerosis and T Lymphocytes: An Entangled Story. <i>Journal of NeuroImmune Pharmacology</i> , 2015, 10, 528-546.	4.1	160
8	Acute and Persistent Infection of Human Neural Cell Lines by Human Coronavirus OC43. <i>Journal of Virology</i> , 1999, 73, 3338-3350.	3.4	156
9	Netrin 1 regulates blood-brain barrier function and neuroinflammation. <i>Brain</i> , 2015, 138, 1598-1612.	7.6	141
10	Diminished Th17 (not Th1) responses underlie multiple sclerosis disease abrogation after hematopoietic stem cell transplantation. <i>Annals of Neurology</i> , 2013, 73, 341-354.	5.3	130
11	Melanoma cell adhesion molecule identifies encephalitogenic T lymphocytes and promotes their recruitment to the central nervous system. <i>Brain</i> , 2012, 135, 2906-2924.	7.6	128
12	Lipocalin 2 is a novel immune mediator of experimental autoimmune encephalomyelitis pathogenesis and is modulated in multiple sclerosis. <i>Glia</i> , 2012, 60, 1145-1159.	4.9	118
13	Persistent Infection of Human Oligodendrocytic and Neuroglial Cell Lines by Human Coronavirus 229E. <i>Journal of Virology</i> , 1999, 73, 3326-3337.	3.4	115
14	IL-27 increases the proliferation and effector functions of human naive CD8 ⁺ T lymphocytes and promotes their development into Tc1 cells. <i>European Journal of Immunology</i> , 2011, 41, 47-59.	2.9	115
15	Reduced endocannabinoid immune modulation by a common cannabinoid 2 (CB2) receptor gene polymorphism: possible risk for autoimmune disorders. <i>Journal of Leukocyte Biology</i> , 2005, 78, 231-238.	3.3	113
16	Central nervous system recruitment of effector memory CD8 ⁺ T lymphocytes during neuroinflammation is dependent on α 4 integrin. <i>Brain</i> , 2011, 134, 3560-3577.	7.6	112
17	Maraviroc and JC Virus-Associated Immune Reconstitution Inflammatory Syndrome. <i>New England Journal of Medicine</i> , 2014, 370, 486-488.	27.0	103
18	USP15 regulates type I interferon response and is required for pathogenesis of neuroinflammation. <i>Nature Immunology</i> , 2017, 18, 54-63.	14.5	90

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19	Contribution of Astrocyte-Derived IL-15 to CD8 T Cell Effector Functions in Multiple Sclerosis. <i>Journal of Immunology</i> , 2010, 185, 5693-5703.	0.8	89
20	Cytotoxic NKG2C+ CD4 T Cells Target Oligodendrocytes in Multiple Sclerosis. <i>Journal of Immunology</i> , 2013, 190, 2510-2518.	0.8	86
21	NKG2D-Mediated Cytotoxicity toward Oligodendrocytes Suggests a Mechanism for Tissue Injury in Multiple Sclerosis. <i>Journal of Neuroscience</i> , 2007, 27, 1220-1228.	3.6	84
22	Mitochondrial damage revealed by immunoselection for ALS-linked misfolded SOD1. <i>Human Molecular Genetics</i> , 2013, 22, 3947-3959.	2.9	78
23	Nucleus accumbens inflammation mediates anxiodepressive behavior and compulsive sucrose seeking elicited by saturated dietary fat. <i>Molecular Metabolism</i> , 2018, 10, 1-13.	6.5	78
24	c-Jun NH2-Terminal Kinase (JNK)1 and JNK2 Signaling Pathways Have Divergent Roles in CD8+ T Cell-mediated Antiviral Immunity. <i>Journal of Experimental Medicine</i> , 2002, 195, 801-810.	8.5	77
25	Measles virus interacts with human SLAM receptor on dendritic cells to cause immunosuppression. <i>Virology</i> , 2004, 323, 292-302.	2.4	71
26	Measles Virus Infects and Suppresses Proliferation of T Lymphocytes from Transgenic Mice Bearing Human Signaling Lymphocytic Activation Molecule. <i>Journal of Virology</i> , 2003, 77, 3505-3515.	3.4	62
27	Contribution of CD8 T lymphocytes to the immuno-pathogenesis of multiple sclerosis and its animal models. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 151-161.	3.8	61
28	Melanoma cell adhesion molecule-positive CD8 T lymphocytes mediate central nervous system inflammation. <i>Annals of Neurology</i> , 2015, 78, 39-53.	5.3	61
29	Peripheral human CD4+CD8+ T lymphocytes exhibit a memory phenotype and enhanced responses to IL-2, IL-7 and IL-15. <i>Scientific Reports</i> , 2017, 7, 11612.	3.3	60
30	Distinctive Properties of Human Adult Brain-Derived Myelin Progenitor Cells. <i>American Journal of Pathology</i> , 2004, 165, 2167-2175.	3.8	59
31	B Cell-Derived IL-15 Enhances CD8 T Cell Cytotoxicity and Is Increased in Multiple Sclerosis Patients. <i>Journal of Immunology</i> , 2011, 187, 4119-4128.	0.8	59
32	ALS-linked misfolded SOD1 species have divergent impacts on mitochondria. <i>Acta Neuropathologica Communications</i> , 2016, 4, 43.	5.2	57
33	Production of IL-27 in multiple sclerosis lesions by astrocytes and myeloid cells: Modulation of local immune responses. <i>Glia</i> , 2016, 64, 553-569.	4.9	56
34	An optimized method to process mouse CNS to simultaneously analyze neural cells and leukocytes by flow cytometry. <i>Journal of Neuroscience Methods</i> , 2015, 247, 23-31.	2.5	55
35	Human brain endothelial cells endeavor to immunoregulate CD8 T cells via PD-1 ligand expression in multiple sclerosis. <i>Journal of Neuroinflammation</i> , 2011, 8, 155.	7.2	53
36	Immunological and pathological characterization of fatal rebound MS activity following natalizumab withdrawal. <i>Multiple Sclerosis Journal</i> , 2017, 23, 72-81.	3.0	51

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37	Natural Killer Cells Regulate Th17 Cells After Autologous Hematopoietic Stem Cell Transplantation for Relapsing Remitting Multiple Sclerosis. <i>Frontiers in Immunology</i> , 2018, 9, 834.	4.8	51
38	Comparison of immunofluorescence with monoclonal antibodies and RT-PCR for the detection of human coronaviruses 229E and OC43 in cell culture. <i>Journal of Virological Methods</i> , 1998, 72, 145-152.	2.1	49
39	Human Activated T Lymphocytes Modulate IDO Expression in Tumors through Th1/Th2 Balance. <i>Journal of Immunology</i> , 2009, 183, 7752-7760.	0.8	47
40	The majority of infiltrating CD8 T lymphocytes in multiple sclerosis lesions is insensitive to enhanced PD-L1 levels on CNS cells. <i>Glia</i> , 2011, 59, 841-856.	4.9	47
41	Involvement of Aminopeptidase N (CD13) in Infection of Human Neural Cells by Human Coronavirus 229E. <i>Journal of Virology</i> , 1998, 72, 6511-6519.	3.4	47
42	Dendritic Cell Differentiation Signals Induce Anti-Inflammatory Properties in Human Adult Microglia. <i>Journal of Immunology</i> , 2008, 181, 8288-8297.	0.8	42
43	A new approach for evaluating antigen-specific T cell responses to myelin antigens during the course of multiple sclerosis. <i>Journal of Neuroimmunology</i> , 2003, 137, 197-209.	2.3	35
44	Differential Effects of PKC Inhibitors on Gelatinase B and Interleukin 6 Production in the Mouse Macrophage. <i>Cytokine</i> , 1995, 7, 130-136.	3.2	32
45	Integrated immunovirological profiling validates plasma SARS-CoV-2 RNA as an early predictor of COVID-19 mortality. <i>Science Advances</i> , 2021, 7, eabj5629.	10.3	32
46	Th1 Polarization of CD4+ T Cells by Toll-Like Receptor 3-Activated Human Microglia. <i>Journal of Neuropathology and Experimental Neurology</i> , 2007, 66, 848-859.	1.7	30
47	DICAM promotes T _H 17 lymphocyte trafficking across the blood-brain barrier during autoimmune neuroinflammation. <i>Science Translational Medicine</i> , 2022, 14, eabj0473.	12.4	27
48	Interleukin-26, preferentially produced by T _H 17 lymphocytes, regulates CNS barrier function. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2020, 7, .	6.0	25
49	Persistent Infection of Neural Cell Lines by Human Coronaviruses. <i>Advances in Experimental Medicine and Biology</i> , 1998, 440, 575-581.	1.6	25
50	Stimulation of Wnt/β-Catenin Pathway in Human CD8+ T Lymphocytes from Blood and Lung Tumors Leads to a Shared Young/Memory Phenotype. <i>PLoS ONE</i> , 2012, 7, e41074.	2.5	25
51	N-FORMYL-METHIONYL-LEUCYL- PHENYLALANINE INDUCES AND MODULATES IL-1 AND IL-6 IN HUMAN PBMC. <i>Cytokine</i> , 1996, 8, 468-475.	3.2	24
52	Identification of SARS-CoV-2-specific immune alterations in acutely ill patients. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	24
53	Increased frequency of proinflammatory CD4 T cells and pathological levels of serum neurofilament light chain in adult drug-resistant epilepsy. <i>Epilepsia</i> , 2021, 62, 176-189.	5.1	23
54	TGF-alpha as a candidate tumor antigen for renal cell carcinomas. <i>Cancer Immunology, Immunotherapy</i> , 2009, 58, 1207-1218.	4.2	21

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55	Potential for Interferon Beta-Induced Serum Antibodies in Multiple Sclerosis to Inhibit Endogenous Interferon-Regulated Chemokine/Cytokine Responses Within the Central Nervous System. Archives of Neurology, 2006, 63, 1296.	4.5	20
56	A new clinically relevant approach to expand myelin specific T cells. Journal of Immunological Methods, 2006, 310, 53-61.	1.4	20
57	Endogenously expressed matrix protein M1 and nucleoprotein of influenza A are efficiently presented by class I and class II major histocompatibility complexes. Journal of General Virology, 2011, 92, 1162-1171.	2.9	20
58	CD4 ⁺ Regulatory T Lymphocytes Prevent Impaired Cerebral Blood Flow in Angiotensin II-Induced Hypertension. Journal of the American Heart Association, 2019, 8, e009372.	3.7	19
59	TLR-mediated B cell activation results in ectopic CLIP expression that promotes B cell-dependent inflammation. Journal of Leukocyte Biology, 2010, 88, 779-789.	3.3	16
60	Gross Motor Skills Training Leads to Increased Brain-Derived Neurotrophic Factor Levels in Healthy Older Adults: A Pilot Study. Frontiers in Physiology, 2019, 10, 410.	2.8	16
61	Editorial: Lymphocytes in MS and EAE: More Than Just a CD4 ⁺ World. Frontiers in Immunology, 2017, 8, 133.	4.8	15
62	Interleukin-15 enhances proinflammatory T-cell responses in patients with MS and EAE. Neurology: Neuroimmunology and NeuroInflammation, 2021, 8, .	6.0	13
63	NKG2D and Its Ligand MULT1 Contribute to Disease Progression in a Mouse Model of Multiple Sclerosis. Frontiers in Immunology, 2019, 10, 154.	4.8	12
64	Capturing T Lymphocytes'™ Dynamic Interactions With Human Neural Cells Using Time-Lapse Microscopy. Frontiers in Immunology, 2021, 12, 668483.	4.8	11
65	Contact-Dependent Granzyme B-Mediated Cytotoxicity of Th17-Polarized Cells Toward Human Oligodendrocytes. Frontiers in Immunology, 2022, 13, 850616.	4.8	7
66	The IL-27/IL-27R axis is altered in CD4 ⁺ and CD8 ⁺ T lymphocytes from multiple sclerosis patients. Clinical and Translational Immunology, 2021, 10, e1262.	3.8	6
67	Stress Signal ULBP4, an NKG2D Ligand, Is Upregulated in Multiple Sclerosis and Shapes CD8 ⁺ T-Cell Behaviors. Neurology: Neuroimmunology and NeuroInflammation, 2022, 9, .	6.0	6
68	Immunodetection of Outer Membrane Proteins by Flow Cytometry of Isolated Mitochondria. Journal of Visualized Experiments, 2014, , 51887.	0.3	5
69	Marital quality and inflammation: The moderating role of early life adversity.. Health Psychology, 2020, 39, 58-67.	1.6	3
70	Bacillus Calmette-Guérin vaccination and multiple sclerosis: A population-based birth cohort study in Quebec, Canada. European Journal of Neurology, 2022, 29, 1791-1804.	3.3	3
71	OR.21. MCAM/CD146 is Expressed by Brain Endothelial Cells and Defines a Unique Effector Memory Lymphocyte Subset Involved in Neuroinflammation. Clinical Immunology, 2009, 131, S12.	3.2	2
72	IL-15 and IL-15R α Expressed in Human Central Nervous System by Astrocytes Contribute to CD8 T Lymphocyte Activation and Persistence: Implications for Multiple Sclerosis. Clinical Immunology, 2007, 123, S147-S148.	3.2	1

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73	Journal Club: Intrathecal effects of daclizumab treatment of multiple sclerosis. <i>Neurology</i> , 2012, 78, e131-3.	1.1	1
74	Human Bloodâ€‘brain Barrier-associated DCs Originate from Blood Monocytes and Polarize CD4+ Lymphocytes into Th17 or Th1. <i>Clinical Immunology</i> , 2007, 123, S151-S152.	3.2	0
75	Cytotoxic Human IL-22-expressing Th17 Lymphocytes Promote Immune Cell Migration Into the Central Nervous System. <i>Clinical Immunology</i> , 2007, 123, S60.	3.2	0
76	F.35. Contrasting Responses of Human Microglia and Monocytes to Dendritic Cell-inducing Conditions. <i>Clinical Immunology</i> , 2008, 127, S54.	3.2	0
77	Mitochondrial damage revealed by immunoselection for ALS-linked misfolded SOD1. <i>Molecular Neurodegeneration</i> , 2013, 8, .	10.8	0
78	Enhanced levels of IL-27 and IL-27R in the central nervous system of multiple sclerosis patients. <i>Journal of Neuroimmunology</i> , 2014, 275, 173.	2.3	0
79	Elevated NKG2D ligand expression in experimental autoimmune encephalomyelitis. <i>Journal of Neuroimmunology</i> , 2014, 275, 66.	2.3	0
80	Netrin-1 regulates bloodâ€‘brain barrier function and CNS inflammation. <i>Journal of Neuroimmunology</i> , 2014, 275, 26-27.	2.3	0
81	MCAM identifies inflammatory encephalitogenic CD8 T lymphocytes presenting a high cytotoxic capacity. <i>Journal of Neuroimmunology</i> , 2014, 275, 159.	2.3	0
82	Lymphocytes in MS and EAE: More than just a CD4+ World. <i>Frontiers Research Topics</i> , 0, , .	0.2	0