

# Jack P Antel

## List of Publications by Year in descending order

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230  
papers

27,227  
citations

6486

82  
h-index

7427

157  
g-index

242  
all docs

242  
docs citations

242  
times ranked

30568  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of a unique TGF- $\beta$ 2-dependent molecular and functional signature in microglia. <i>Nature Neuroscience</i> , 2014, 17, 131-143.	7.1	2,056
2	Oral Fingolimod (FTY720) for Relapsing Multiple Sclerosis. <i>New England Journal of Medicine</i> , 2006, 355, 1124-1140.	13.9	996
3	Type I interferons and microbial metabolites of tryptophan modulate astrocyte activity and central nervous system inflammation via the aryl hydrocarbon receptor. <i>Nature Medicine</i> , 2016, 22, 586-597.	15.2	987
4	Rituximab in patients with primary progressive multiple sclerosis: Results of a randomized double-blind placebo-controlled multicenter trial. <i>Annals of Neurology</i> , 2009, 66, 460-471.	2.8	815
5	Encephalitogenic potential of the myelin basic protein peptide (amino acids 83-99) in multiple sclerosis: Results of a phase II clinical trial with an altered peptide ligand. <i>Nature Medicine</i> , 2000, 6, 1167-1175.	15.2	783
6	iPSC-Derived Human Microglia-like Cells to Study Neurological Diseases. <i>Neuron</i> , 2017, 94, 278-293.e9.	3.8	730
7	Microglial control of astrocytes in response to microbial metabolites. <i>Nature</i> , 2018, 557, 724-728.	13.7	693
8	TLR Signaling Tailors Innate Immune Responses in Human Microglia and Astrocytes. <i>Journal of Immunology</i> , 2005, 175, 4320-4330.	0.4	636
9	Neuroblastoma – spinal cord (NSC) hybrid cell lines resemble developing motor neurons. <i>Developmental Dynamics</i> , 1992, 194, 209-221.	0.8	628
10	Induction of a non-encephalitogenic type 2 T helper-cell autoimmune response in multiple sclerosis after administration of an altered peptide ligand in a placebo-controlled, randomized phase II trial. <i>Nature Medicine</i> , 2000, 6, 1176-1182.	15.2	506
11	An updated histological classification system for multiple sclerosis lesions. <i>Acta Neuropathologica</i> , 2017, 133, 13-24.	3.9	436
12	Comparison of polarization properties of human adult microglia and blood-derived macrophages. <i>Glia</i> , 2012, 60, 717-727.	2.5	393
13	Regulation of astrocyte activation by glycolipids drives chronic CNS inflammation. <i>Nature Medicine</i> , 2014, 20, 1147-1156.	15.2	380
14	Multiple Sclerosis: Fas Signaling in Oligodendrocyte Cell Death. <i>Journal of Experimental Medicine</i> , 1996, 184, 2361-2370.	4.2	359
15	Glioblastoma-infiltrated innate immune cells resemble M0 macrophage phenotype. <i>JCI Insight</i> , 2016, 1, .	2.3	356
16	Interferon $\beta$ -1b decreases the migration of T lymphocytes in vitro: Effects on matrix metalloproteinase-9. <i>Annals of Neurology</i> , 1996, 40, 853-863.	2.8	338
17	Control of tumor-associated macrophages and T cells in glioblastoma via AHR and CD39. <i>Nature Neuroscience</i> , 2019, 22, 729-740.	7.1	327
18	Brain-immune connection: Immuno-regulatory properties of CNS-resident cells. <i>Glia</i> , 2000, 29, 293-304.	2.5	323

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19	Roles of microglia in brain development, tissue maintenance and repair. <i>Brain</i> , 2015, 138, 1138-1159.	3.7	316
20	Proton magnetic resonance spectroscopic imaging for metabolic characterization of demyelinating plaques. <i>Annals of Neurology</i> , 1992, 31, 235-241.	2.8	311
21	Single-cell RNA-seq reveals that glioblastoma recapitulates a normal neurodevelopmental hierarchy. <i>Nature Communications</i> , 2020, 11, 3406.	5.8	300
22	Chemical pathology of acute demyelinating lesions and its correlation with disability. <i>Annals of Neurology</i> , 1995, 38, 901-909.	2.8	288
23	Glial cell influence on the human blood-brain barrier. <i>Glia</i> , 2001, 36, 145-155.	2.5	282
24	MAFG-driven astrocytes promote CNS inflammation. <i>Nature</i> , 2020, 578, 593-599.	13.7	282
25	PK11195 binding to the peripheral benzodiazepine receptor as a marker of microglia activation in multiple sclerosis and experimental autoimmune encephalomyelitis. <i>Journal of Neuroscience Research</i> , 1997, 50, 345-353.	1.3	279
26	Proton magnetic resonance spectroscopy of human brain in vivo in the evaluation of multiple sclerosis: Assessment of the load of disease. <i>Magnetic Resonance in Medicine</i> , 1990, 14, 154-159.	1.9	275
27	Extensive Cortical Remyelination in Patients with Chronic Multiple Sclerosis. <i>Brain Pathology</i> , 2007, 17, 129-138.	2.1	265
28	Fingolimod (FTY720) Enhances Remyelination Following Demyelination of Organotypic Cerebellar Slices. <i>American Journal of Pathology</i> , 2010, 176, 2682-2694.	1.9	254
29	Glioblastoma stem cell-derived exosomes induce M2 macrophages and PD-L1 expression on human monocytes. <i>Oncotarget</i> , 2018, 7, e1412909.	2.1	247
30	FTY720 modulates human oligodendrocyte progenitor process extension and survival. <i>Annals of Neurology</i> , 2008, 63, 61-71.	2.8	244
31	Cells of the oligodendroglial lineage, myelination, and remyelination. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 184-193.	1.8	211
32	Vulnerability of Human Neurons to T Cell-Mediated Cytotoxicity. <i>Journal of Immunology</i> , 2003, 171, 368-379.	0.4	198
33	Use of proton magnetic resonance spectroscopy for monitoring disease progression in multiple sclerosis. <i>Annals of Neurology</i> , 1994, 36, 76-82.	2.8	192
34	Natalizumab effects on immune cell responses in multiple sclerosis. <i>Annals of Neurology</i> , 2006, 59, 748-754.	2.8	190
35	miR-155 as a multiple sclerosis-relevant regulator of myeloid cell polarization. <i>Annals of Neurology</i> , 2013, 74, 709-720.	2.8	189
36	Rapid and efficient generation of oligodendrocytes from human induced pluripotent stem cells using transcription factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2243-E2252.	3.3	189

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37	Type 2 Monocyte and Microglia Differentiation Mediated by Glatiramer Acetate Therapy in Patients with Multiple Sclerosis. <i>Journal of Immunology</i> , 2004, 172, 7144-7153.	0.4	187
38	Human microglial cells have phenotypic and functional characteristics in common with both macrophages and dendritic antigen-presenting cells. <i>Journal of Leukocyte Biology</i> , 1994, 56, 732-740.	1.5	184
39	Primary progressive multiple sclerosis: part of the MS disease spectrum or separate disease entity?. <i>Acta Neuropathologica</i> , 2012, 123, 627-638.	3.9	176
40	Determinants of Human B Cell Migration Across Brain Endothelial Cells. <i>Journal of Immunology</i> , 2003, 170, 4497-4505.	0.4	175
41	Multiple Sclerosis: Magnetization Transfer MR Imaging of White Matter before Lesion Appearance on T2-weighted Images. <i>Radiology</i> , 2000, 215, 824-830.	3.6	174
42	Microglia and multiple sclerosis. <i>Journal of Neuroscience Research</i> , 2005, 81, 363-373.	1.3	174
43	Genetic models for CNS inflammation. <i>Nature Medicine</i> , 2001, 7, 161-166.	15.2	169
44	B7/BB-1 antigen expression on adult human microglia studied in vitro and in situ. <i>European Journal of Immunology</i> , 1994, 24, 3031-3037.	1.6	162
45	Peripherally derived macrophages modulate microglial function to reduce inflammation after CNS injury. <i>PLoS Biology</i> , 2018, 16, e2005264.	2.6	159
46	Neurological complications of coronavirus infection; a comparative review and lessons learned during the COVID-19 pandemic. <i>Journal of the Neurological Sciences</i> , 2020, 417, 117085.	0.3	159
47	Central nervous system-directed effects of FTY720 (fingolimod). <i>Journal of the Neurological Sciences</i> , 2008, 274, 13-17.	0.3	158
48	Sphingosine 1-phosphate receptor modulation suppresses pathogenic astrocyte activation and chronic progressive CNS inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2012-2017.	3.3	156
49	Biology of Adult Human Microglia in Culture: Comparisons with Peripheral Blood Monocytes and Astrocytes. <i>Journal of Neuropathology and Experimental Neurology</i> , 1992, 51, 538-549.	0.9	153
50	Pro-inflammatory activation of primary microglia and macrophages increases 18 kDa translocator protein expression in rodents but not humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2679-2690.	2.4	153
51	ADP and AMP Induce Interleukin-1 $\beta$ Release from Microglial Cells through Activation of ATP-Primed P2X <sub>7</sub> Receptor Channels. <i>Journal of Neuroscience</i> , 2002, 22, 3061-3069.	1.7	150
52	Microglial Expression of the B7 Family Member B7 Homolog 1 Confers Strong Immune Inhibition: Implications for Immune Responses and Autoimmunity in the CNS. <i>Journal of Neuroscience</i> , 2005, 25, 2537-2546.	1.7	150
53	Environmental Control of Astrocyte Pathogenic Activities in CNS Inflammation. <i>Cell</i> , 2019, 176, 581-596.e18.	13.5	150
54	Pathogenesis of multiple sclerosis. <i>Current Opinion in Neurology</i> , 2005, 18, 225-230.	1.8	142

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55	Netrin 1 regulates blood-brain barrier function and neuroinflammation. <i>Brain</i> , 2015, 138, 1598-1612.	3.7	141
56	P2Y12 expression and function in alternatively activated human microglia. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2015, 2, e80.	3.1	139
57	Diminished Th17 (not Th1) responses underlie multiple sclerosis disease abrogation after hematopoietic stem cell transplantation. <i>Annals of Neurology</i> , 2013, 73, 341-354.	2.8	130
58	The Tryptophan Metabolite 3-Hydroxyanthranilic Acid Plays Anti-Inflammatory and Neuroprotective Roles During Inflammation. <i>American Journal of Pathology</i> , 2011, 179, 1360-1372.	1.9	129
59	MerTK Is a Functional Regulator of Myelin Phagocytosis by Human Myeloid Cells. <i>Journal of Immunology</i> , 2016, 196, 3375-3384.	0.4	128
60	Barcoded viral tracing of single-cell interactions in central nervous system inflammation. <i>Science</i> , 2021, 372, .	6.0	127
61	Peripheral blood T cells lyse fresh human brain-Derived oligodendrocytes. <i>Annals of Neurology</i> , 1991, 30, 794-800.	2.8	124
62	Myelin basic protein and human coronavirus 229E cross-reactive T cells in multiple sclerosis. <i>Annals of Neurology</i> , 1996, 39, 233-240.	2.8	121
63	p75 Neurotrophin Receptor Expression on Adult Human Oligodendrocytes: Signaling without Cell Death in Response to NGF. <i>Journal of Neuroscience</i> , 1998, 18, 1297-1304.	1.7	121
64	Metabolic Control of Astrocyte Pathogenic Activity via cPLA2-MAVS. <i>Cell</i> , 2019, 179, 1483-1498.e22.	13.5	120
65	Statin Therapy Inhibits Remyelination in the Central Nervous System. <i>American Journal of Pathology</i> , 2009, 174, 1880-1890.	1.9	118
66	T follicular helper cells in human efferent lymph retain lymphoid characteristics. <i>Journal of Clinical Investigation</i> , 2019, 129, 3185-3200.	3.9	116
67	Dimethyl Fumarate Treatment Mediates an Anti-Inflammatory Shift in B Cell Subsets of Patients with Multiple Sclerosis. <i>Journal of Immunology</i> , 2017, 198, 691-698.	0.4	112
68	Migration of Multiple Sclerosis Lymphocytes Through Brain Endothelium. <i>Archives of Neurology</i> , 2002, 59, 391.	4.9	110
69	Astrocytes in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2016, 22, 1114-1124.	1.4	108
70	Interferon- $\beta$ Modulates Human Oligodendrocyte Susceptibility To Fas-Mediated Apoptosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2000, 59, 280-286.	0.9	107
71	Fc Receptors for IgG on Cultured Human Microglia Mediate Cytotoxicity and Phagocytosis of Antibody-coated Targets. <i>Journal of Neuropathology and Experimental Neurology</i> , 1994, 53, 27-36.	0.9	105
72	Netrin 1 and Dcc regulate oligodendrocyte process branching and membrane extension via Fyn and RhoA. <i>Development (Cambridge)</i> , 2009, 136, 415-426.	1.2	105

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73	Enhanced Protein Kinase C Activity Correlates with the Growth Rate of Malignant Gliomas in Vitro. <i>Neurosurgery</i> , 1991, 29, 880-887.	0.6	101
74	Peripheral Nerve Injury Induces Persistent Vascular Dysfunction and Endoneurial Hypoxia, Contributing to the Genesis of Neuropathic Pain. <i>Journal of Neuroscience</i> , 2015, 35, 3346-3359.	1.7	101
75	A human glial hybrid cell line differentially expressing genes subserving oligodendrocyte and astrocyte phenotype. <i>Journal of Neurobiology</i> , 1995, 26, 283-293.	3.7	99
76	Neurobiological effects of sphingosine 1-phosphate receptor modulation in the cuprizone model. <i>FASEB Journal</i> , 2011, 25, 1509-1518.	0.2	99
77	Cyclical and Dose-Dependent Responses of Adult Human Mature Oligodendrocytes to Fingolimod. <i>American Journal of Pathology</i> , 2008, 173, 1143-1152.	1.9	91
78	USP15 regulates type I interferon response and is required for pathogenesis of neuroinflammation. <i>Nature Immunology</i> , 2017, 18, 54-63.	7.0	90
79	Contribution of Astrocyte-Derived IL-15 to CD8 T Cell Effector Functions in Multiple Sclerosis. <i>Journal of Immunology</i> , 2010, 185, 5693-5703.	0.4	89
80	Oligodendroglial pathology in Multiple Sclerosis: Low Glycolytic Metabolic Rate Promotes Oligodendrocyte Survival. <i>Journal of Neuroscience</i> , 2016, 36, 4698-4707.	1.7	89
81	Interferon Beta Promotes Nerve Growth Factor Secretion Early in the Course of Multiple Sclerosis. <i>Archives of Neurology</i> , 2005, 62, 563.	4.9	87
82	Interferon- $\gamma$ secretion by peripheral blood T-cell subsets in multiple sclerosis: Correlation with disease phase and interferon- $\gamma$ therapy. <i>Annals of Neurology</i> , 1999, 45, 247-250.	2.8	86
83	Cytotoxic NKG2C+ CD4 T Cells Target Oligodendrocytes in Multiple Sclerosis. <i>Journal of Immunology</i> , 2013, 190, 2510-2518.	0.4	86
84	Oligodendrocyte injury in multiple sclerosis: a role for p53. <i>Journal of Neurochemistry</i> , 2003, 85, 635-644.	2.1	85
85	NKG2D-Mediated Cytotoxicity toward Oligodendrocytes Suggests a Mechanism for Tissue Injury in Multiple Sclerosis. <i>Journal of Neuroscience</i> , 2007, 27, 1220-1228.	1.7	84
86	Simvastatin regulates oligodendroglial process dynamics and survival. <i>Glia</i> , 2007, 55, 130-143.	2.5	84
87	Differential proliferative response of human and mouse astrocytes to gamma-interferon. <i>Glia</i> , 1992, 6, 269-280.	2.5	83
88	A Novel MicroRNA-132-Sirtuin-1 Axis Underlies Aberrant B-cell Cytokine Regulation in Patients with Relapsing-Remitting Multiple Sclerosis. <i>PLoS ONE</i> , 2014, 9, e105421.	1.1	81
89	Roles of immunoglobulins and B cells in multiple sclerosis: From pathogenesis to treatment. <i>Journal of Neuroimmunology</i> , 2006, 180, 3-8.	1.1	80
90	Regulation of Th1 and Th2 Lymphocyte Migration by Human Adult Brain Endothelial Cells. <i>Journal of Neuropathology and Experimental Neurology</i> , 2001, 60, 1127-1136.	0.9	79

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91	In vivo differentiation of astrocytic brain tumors and isolated demyelinating lesions of the type seen in multiple sclerosis using 1H magnetic resonance spectroscopic imaging. <i>Annals of Neurology</i> , 1998, 44, 273-278.	2.8	78
92	Regulation and Functional Effects of Monocyte Migration across Human Brain-Derived Endothelial Cells. <i>Journal of Neuropathology and Experimental Neurology</i> , 2003, 62, 412-419.	0.9	77
93	Direct and Indirect Effects of Immune and Central Nervous System Resident Cells on Human Oligodendrocyte Progenitor Cell Differentiation. <i>Journal of Immunology</i> , 2015, 194, 761-772.	0.4	75
94	Dimethyl fumarate induced lymphopenia in MS due to differential T-cell subset apoptosis. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2017, 4, e340.	3.1	73
95	Transcriptomic and clonal characterization of T cells in the human central nervous system. <i>Science Immunology</i> , 2020, 5, .	5.6	73
96	Characterization of T cell lines derived from glatiramer-acetate-treated multiple sclerosis patients. <i>Journal of Neuroimmunology</i> , 2000, 108, 201-206.	1.1	69
97	Lesion stage-dependent causes for impaired remyelination in MS. <i>Acta Neuropathologica</i> , 2020, 140, 359-375.	3.9	69
98	Phagocytosis of apoptotic inflammatory cells by microglia and its therapeutic implications: Termination of CNS autoimmune inflammation and modulation by interferon-beta. <i>Glia</i> , 2003, 43, 231-242.	2.5	68
99	Contrasting potential of nitric oxide and peroxynitrite to mediate oligodendrocyte injury in multiple sclerosis. <i>Glia</i> , 2007, 55, 926-934.	2.5	68
100	Kinin B <sub>1</sub> Receptor Expression and Function on Human Brain Endothelial Cells. <i>Journal of Neuropathology and Experimental Neurology</i> , 2000, 59, 896-906.	0.9	67
101	Migratory behavior of lymphocytes isolated from multiple sclerosis patients: Effects of interferon $\gamma$ -1b therapy. <i>Annals of Neurology</i> , 1999, 46, 319-324.	2.8	66
102	CD40 engagement stimulates IL-12 p70 production by human microglial cells: basis for Th1 polarization in the CNS. <i>Journal of Neuroimmunology</i> , 2000, 102, 44-50.	1.1	66
103	Small-Molecule Stabilization of 14-3-3 Protein-Protein Interactions Stimulates Axon Regeneration. <i>Neuron</i> , 2017, 93, 1082-1093.e5.	3.8	66
104	Continued Administration of Ciliary Neurotrophic Factor Protects Mice from Inflammatory Pathology in Experimental Autoimmune Encephalomyelitis. <i>American Journal of Pathology</i> , 2006, 169, 584-598.	1.9	65
105	Differential responses of human microglia and blood-derived myeloid cells to FTY720. <i>Journal of Neuroimmunology</i> , 2011, 230, 10-16.	1.1	62
106	NBI-5788, an altered MBP83-99 peptide, induces a T-helper 2-like immune response in multiple sclerosis patients. <i>Annals of Neurology</i> , 2000, 48, 758-765.	2.8	61
107	Oligodendrocyte Progenitor Cell Susceptibility to Injury in Multiple Sclerosis. <i>American Journal of Pathology</i> , 2013, 183, 516-525.	1.9	61
108	Distinctive Properties of Human Adult Brain-Derived Myelin Progenitor Cells. <i>American Journal of Pathology</i> , 2004, 165, 2167-2175.	1.9	59

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109	B7 Expression and Antigen Presentation by Human Brain Endothelial Cells: Requirement for Proinflammatory Cytokines. <i>Journal of Neuropathology and Experimental Neurology</i> , 2000, 59, 129-136.	0.9	58
110	The Identity of Human Tissue-Emigrant CD8+ T Cells. <i>Cell</i> , 2020, 183, 1946-1961.e15.	13.5	58
111	COVID-19 and disease-modifying therapies in patients with demyelinating diseases of the central nervous system: A systematic review. <i>Multiple Sclerosis and Related Disorders</i> , 2021, 50, 102800.	0.9	58
112	Effects of fumarates on circulating and CNS myeloid cells in multiple sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2016, 3, 27-41.	1.7	57
113	Mechanism of $\gamma\delta$ T cell-induced human oligodendrocyte cytotoxicity: relevance to multiple sclerosis. <i>Journal of Neuroimmunology</i> , 1998, 87, 49-61.	1.1	56
114	Lymphocyte migration and multiple sclerosis: Relation with disease course and therapy. <i>Annals of Neurology</i> , 1999, 46, 253-256.	2.8	56
115	Production of $\alpha$ 27 in multiple sclerosis lesions by astrocytes and myeloid cells: Modulation of local immune responses. <i>Glia</i> , 2016, 64, 553-569.	2.5	56
116	Isolating, Culturing, and Polarizing Primary Human Adult and Fetal Microglia. <i>Methods in Molecular Biology</i> , 2013, 1041, 199-211.	0.4	55
117	Oligodendrocyte lysis by CD4+ T cells independent of tumor necrosis factor. <i>Annals of Neurology</i> , 1994, 35, 341-348.	2.8	54
118	p53 Induction by Tumor Necrosis Factor- $\alpha$ and Involvement of p53 in Cell Death of Human Oligodendrocytes. <i>Journal of Neurochemistry</i> , 2002, 73, 605-611.	2.1	53
119	The role of glial cells in multiple sclerosis disease progression. <i>Nature Reviews Neurology</i> , 2022, 18, 237-248.	4.9	53
120	Immune regulation and CNS autoimmune disease. <i>Journal of Neuroimmunology</i> , 1999, 100, 181-189.	1.1	52
121	Resistance of human adult oligodendrocytes to AMPA/kainate receptor-mediated glutamate injury. <i>Brain</i> , 2004, 127, 2636-2648.	3.7	52
122	Expression of a homologue of rat NG2 on human microglia. , 1999, 27, 259-268.		51
123	Reconstitution of circulating lymphocyte counts in FTY720-treated MS patients. <i>Clinical Immunology</i> , 2010, 137, 15-20.	1.4	51
124	Divergent Neuroinflammatory Regulation of Microglial TREM Expression and Involvement of NF- $\kappa$ B. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 56.	1.8	51
125	Sphingosine-1-Phosphate Receptors in the Central Nervous and Immune Systems. <i>Current Drug Targets</i> , 2016, 17, 1841-1850.	1.0	50
126	Role of p38MAPK in S1P receptor-mediated differentiation of human oligodendrocyte progenitors. <i>Glia</i> , 2014, 62, 1361-1375.	2.5	49



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127	MerTK-mediated regulation of myelin phagocytosis by macrophages generated from patients with MS. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2017, 4, e402.	3.1	49
128	Dual effects of daily FTY720 on human astrocytes in vitro: relevance for neuroinflammation. <i>Journal of Neuroinflammation</i> , 2013, 10, 41.	3.1	48
129	NK cell-mediated lysis of autologous human oligodendrocytes. <i>Journal of Neuroimmunology</i> , 2001, 116, 107-115.	1.1	47
130	Th1 and Th2 lymphocyte migration across the human BBB is specifically regulated by interferon $\gamma$ and copolymer-1. <i>Journal of Autoimmunity</i> , 2005, 24, 119-124.	3.0	47
131	The majority of infiltrating CD8 T lymphocytes in multiple sclerosis lesions is insensitive to enhanced PD-1 levels on CNS cells. <i>Glia</i> , 2011, 59, 841-856.	2.5	47
132	Multiple Sclerosis and Central Nervous System Demyelination. <i>Journal of Autoimmunity</i> , 1999, 13, 297-306.	3.0	45
133	A central role for RhoA during oligodendroglial maturation in the switch from Netrin-1-mediated chemorepulsion to process elaboration. <i>Journal of Neurochemistry</i> , 2010, 113, 1589-1597.	2.1	44
134	Developmental trajectory of oligodendrocyte progenitor cells in the human brain revealed by single cell RNA sequencing. <i>Glia</i> , 2020, 68, 1291-1303.	2.5	44
135	Response of Human Oligodendrocyte Progenitors to Growth Factors and Axon Signals. <i>Journal of Neuropathology and Experimental Neurology</i> , 2010, 69, 930-944.	0.9	43
136	Fetal microglial phenotype in vitro carries memory of prior in vivo exposure to inflammation. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 294.	1.8	43
137	Dendritic Cell Differentiation Signals Induce Anti-Inflammatory Properties in Human Adult Microglia. <i>Journal of Immunology</i> , 2008, 181, 8288-8297.	0.4	42
138	Mitochondrial and Bioenergetic Dysfunction in Trauma-Induced Painful Peripheral Neuropathy. <i>Molecular Pain</i> , 2015, 11, s12990-015-0057.	1.0	42
139	Regulation of miRNA 219 and miRNA Clusters 338 and 17-92 in Oligodendrocytes. <i>Frontiers in Genetics</i> , 2012, 3, 46.	1.1	41
140	The PTEN inhibitor bisperoxovanadium enhances myelination by amplifying IGF-1 signaling in rat and human oligodendrocyte progenitors. <i>Glia</i> , 2014, 62, 64-77.	2.5	40
141	Human central nervous system astrocytes support survival and activation of B cells: implications for MS pathogenesis. <i>Journal of Neuroinflammation</i> , 2018, 15, 114.	3.1	40
142	Immune regulatory and effector properties of human adult microglia studied in vitro and in situ. <i>Advances in Neuroimmunology</i> , 1994, 4, 273-281.	1.8	39
143	Heterogeneity of oligodendrocyte progenitor cells in adult human brain. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 272-283.	1.7	39
144	Distinct migratory and cytokine responses of human microglia and macrophages to ATP. <i>Brain, Behavior, and Immunity</i> , 2010, 24, 1241-1248.	2.0	38

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145	Do Myelin-Directed Antibodies Predict Multiple Sclerosis?. <i>New England Journal of Medicine</i> , 2003, 349, 107-109.	13.9	37
146	Full-Length and Fragmented Netrin-1 in Multiple Sclerosis Plaques Are Inhibitors of Oligodendrocyte Precursor Cell Migration. <i>American Journal of Pathology</i> , 2013, 183, 673-680.	1.9	36
147	Distinct age and differentiation-state dependent metabolic profiles of oligodendrocytes under optimal and stress conditions. <i>PLoS ONE</i> , 2017, 12, e0182372.	1.1	36
148	Caspase 8 expression and signaling in Fas injury-resistant human fetal astrocytes. <i>Glia</i> , 2001, 33, 217-224.	2.5	35
149	T lymphocytes conditioned with Interferon $\hat{I}^2$ induce membrane and soluble VCAM on human brain endothelial cells. <i>Journal of Neuroimmunology</i> , 2001, 115, 161-167.	1.1	35
150	Differential effects of Th1 and Th2 lymphocyte supernatants on human microglia. <i>Glia</i> , 2003, 42, 36-45.	2.5	35
151	Regulation of Cellular and Molecular Trafficking across Human Brain Endothelial Cells by Th1- and Th2-Polarized Lymphocytes. <i>Journal of Neuropathology and Experimental Neurology</i> , 2004, 63, 223-232.	0.9	35
152	MicroRNA Expression Patterns in Human Astrocytes in Relation to Anatomical Location and Age. <i>Journal of Neuropathology and Experimental Neurology</i> , 2016, 75, 156-166.	0.9	35
153	Distinct Properties of Circulating CD8+ T Cells in FTY720-Treated Patients With Multiple Sclerosis. <i>Archives of Neurology</i> , 2010, 67, 1449-55.	4.9	32
154	Reconstitution of the peripheral immune repertoire following withdrawal of fingolimod. <i>Multiple Sclerosis Journal</i> , 2017, 23, 1225-1232.	1.4	32
155	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.	0.9	30
156	Sublethal oligodendrocyte injury: A reversible condition in multiple sclerosis?. <i>Annals of Neurology</i> , 2017, 81, 811-824.	2.8	30
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