Jack P Antel

List of Publications by Year in Descending Order

223 papers	20,896 citations	75 h-index	141 g-index
242 ext. papers	24,510 ext. citations	10 avg, IF	6.47 L-index

#	Paper	IF	Citations
223	DICAM promotes T17 lymphocyte trafficking across the blood-brain barrier during autoimmune neuroinflammation.. *Science Translational Medicine*, **2022**, 14, eabj0473	17.5	3
222	MicroRNA-210 regulates the metabolic and inflammatory status of primary human astrocytes.. *Journal of Neuroinflammation*, **2022**, 19, 10	10.1	2
221	The role of glial cells in multiple sclerosis disease progression.. *Nature Reviews Neurology*, **2022**,	15	4
220	Contact-Dependent Granzyme B-Mediated Cytotoxicity of Th17-Polarized Cells Toward Human Oligodendrocytes.. *Frontiers in Immunology*, **2022**, 13, 850616	8.4	0
219	Identification of novel myelin repair drugs by modulation of oligodendroglial differentiation competence. *EBioMedicine*, **2021**, 65, 103276	8.8	7
218	Barcoded viral tracing of single-cell interactions in central nervous system inflammation. *Science*, **2021**, 372,	33.3	29
217	COVID-19 and disease-modifying therapies in patients with demyelinating diseases of the central nervous system: A systematic review. *Multiple Sclerosis and Related Disorders*, **2021**, 50, 102800	4	38
216	Mitochondrial dynamics and bioenergetics regulated by netrin-1 in oligodendrocytes. *Glia*, **2021**, 69, 392-412	9	5
215	Size and ligand effects of gold nanoclusters in alteration of organellar state and translocation of transcription factors in human primary astrocytes. *Nanoscale*, **2021**, 13, 3173-3183	7.7	5
214	Age-related injury responses of human oligodendrocytes to metabolic insults: link to BCL-2 and autophagy pathways. *Communications Biology*, **2021**, 4, 20	6.7	3
213	Pro-inflammatory T helper 17 directly harms oligodendrocytes in neuroinflammation. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	6
212	Human astrocytes and astrocytoma respond differently to resveratrol. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2021**, 37, 102441	6	1
211	The Identity of Human Tissue-Emigrant CD8 T Cells. *Cell*, **2020**, 183, 1946-1961.e15	56.2	25
210	Effects of Biotin on survival, ensheathment, and ATP production by oligodendrocyte lineage cells in vitro. *PLoS ONE*, **2020**, 15, e0233859	3.7	5
209	Vitamin D Regulates MerTK-Dependent Phagocytosis in Human Myeloid Cells. *Journal of Immunology*, **2020**, 205, 398-406	5.3	4
208	Single-cell RNA-seq reveals that glioblastoma recapitulates a normal neurodevelopmental hierarchy. *Nature Communications*, **2020**, 11, 3406	17.4	88
207	Developmental trajectory of oligodendrocyte progenitor cells in the human brain revealed by single cell RNA sequencing. *Glia*, **2020**, 68, 1291-1303	9	22

206	MAFG-driven astrocytes promote CNS inflammation. *Nature*, **2020**, 578, 593-599	50.4	125
205	Glial Cells as Regulators of Neuroimmune Interactions in the Central Nervous System. *Journal of Immunology*, **2020**, 204, 251-255	5.3	14
204	Species differences in immune-mediated CNS tissue injury and repair: A (neuro)inflammatory topic. *Glia*, **2020**, 68, 811-829	9	14
203	Multiple sclerosis iPS-derived oligodendroglia conserve their properties to functionally interact with axons and glia in vivo. *Science Advances*, **2020**, 6,	14.3	10
202	Lesion stage-dependent causes for impaired remyelination in MS. *Acta Neuropathologica*, **2020**, 140, 359-375	14.3	20
201	Transcriptomic and clonal characterization of T cells in the human central nervous system. *Science Immunology*, **2020**, 5,	28	21
200	Multiple Sclerosis as a Syndrome-Implications for Future Management. *Frontiers in Neurology*, **2020**, 11, 784	4.1	1
199	Neurological complications of coronavirus infection; a comparative review and lessons learned during the COVID-19 pandemic. *Journal of the Neurological Sciences*, **2020**, 417, 117085	3.2	91
198	RNA-binding protein altered expression and mislocalization in MS. *Neurology: Neuroimmunology and NeuroInflammation*, **2020**, 7,	9.1	7
197	Effects of Biotin on survival, ensheathment, and ATP production by oligodendrocyte lineage cells in vitro **2020**, 15, e0233859		
196	Effects of Biotin on survival, ensheathment, and ATP production by oligodendrocyte lineage cells in vitro **2020**, 15, e0233859		
195	Effects of Biotin on survival, ensheathment, and ATP production by oligodendrocyte lineage cells in vitro **2020**, 15, e0233859		
194	Effects of Biotin on survival, ensheathment, and ATP production by oligodendrocyte lineage cells in vitro **2020**, 15, e0233859		
193	Deep learning for high-throughput quantification of oligodendrocyte ensheathment at single-cell resolution. *Communications Biology*, **2019**, 2, 116	6.7	17
192	Distinct Function-Related Molecular Profile of Adult Human A2B5-Positive Pre-Oligodendrocytes Versus Mature Oligodendrocytes. *Journal of Neuropathology and Experimental Neurology*, **2019**, 78, 468-479	3.1	10
191	Control of tumor-associated macrophages and T cells in glioblastoma via AHR and CD39. *Nature Neuroscience*, **2019**, 22, 729-740	25.5	166
190	Astrocytes in the Pathogenesis of Multiple Sclerosis: An In Situ MicroRNA Study. *Journal of Neuropathology and Experimental Neurology*, **2019**, 78, 1130-1146	3.1	9
189	T follicular helper cells in human efferent lymph retain lymphoid characteristics. *Journal of Clinical Investigation*, **2019**, 129, 3185-3200	15.9	78

188	Metabolic Control of Astrocyte Pathogenic Activity via cPLA2-MAVS. *Cell*, **2019**, 179, 1483-1498.e22	56.2	59
187	Helper CD4 T cells expressing granzyme B cause glial fibrillary acidic protein fragmentation in astrocytes in an MHCII-independent manner. *Glia*, **2019**, 67, 582-593	9	4
186	Environmental Control of Astrocyte Pathogenic Activities in CNS Inflammation. *Cell*, **2019**, 176, 581-596.e18	56.2	74
185	Immunology of oligodendrocyte precursor cells in vivo and in vitro. *Journal of Neuroimmunology*, **2019**, 331, 28-35	3.5	7
184	Americas Committee for Treatment and Research in Multiple Sclerosis Forum 2017: Environmental factors, genetics, and epigenetics in MS susceptibility and clinical course. *Multiple Sclerosis Journal*, **2018**, 24, 4-5	5	6
183	Differential transcriptional response profiles in human myeloid cell populations. *Clinical Immunology*, **2018**, 189, 63-74	9	13
182	Human central nervous system astrocytes support survival and activation of B cells: implications for MS pathogenesis. *Journal of Neuroinflammation*, **2018**, 15, 114	10.1	27
181	Glioblastoma stem cell-derived exosomes induce M2 macrophages and PD-L1 expression on human monocytes. *OncoImmunology*, **2018**, 7, e1412909	7.2	151
180	Peripherally derived macrophages modulate microglial function to reduce inflammation after CNS injury. *PLoS Biology*, **2018**, 16, e2005264	9.7	93
179	Microglial control of astrocytes in response to microbial metabolites. *Nature*, **2018**, 557, 724-728	50.4	415
178	Small-Molecule Stabilization of 14-3-3 Protein-Protein Interactions Stimulates Axon Regeneration. *Neuron*, **2017**, 93, 1082-1093.e5	13.9	45
177	Rapid and efficient generation of oligodendrocytes from human induced pluripotent stem cells using transcription factors. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E2243-E2252	11.5	128
176	Sphingosine 1-phosphate receptor modulation suppresses pathogenic astrocyte activation and chronic progressive CNS inflammation. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 2012-2017	11.5	108
175	iPSC-Derived Human Microglia-like Cells to Study Neurological Diseases. *Neuron*, **2017**, 94, 278-293.e9	13.9	445
174	Sublethal oligodendrocyte injury: A reversible condition in multiple sclerosis?. *Annals of Neurology*, **2017**, 81, 811-824	9.4	19
173	Pro-inflammatory activation of primary microglia and macrophages increases 18 kDa translocator protein expression in rodents but not humans. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 2679-2690	7.3	110
172	Comparative morphology and phagocytic capacity of primary human adult microglia with time-lapse imaging. *Journal of Neuroimmunology*, **2017**, 310, 143-149	3.5	5
171	Dimethyl fumarate-induced lymphopenia in MS due to differential T-cell subset apoptosis. *Neurology: Neuroimmunology and NeuroInflammation*, **2017**, 4, e340	9.1	59

170	An updated histological classification system for multiple sclerosis lesions. *Acta Neuropathologica*, **2017**, 133, 13-24	14.3	253
169	Dimethyl Fumarate Treatment Mediates an Anti-Inflammatory Shift in B Cell Subsets of Patients with Multiple Sclerosis. *Journal of Immunology*, **2017**, 198, 691-698	5.3	83
168	Reconstitution of the peripheral immune repertoire following withdrawal of fingolimod. *Multiple Sclerosis Journal*, **2017**, 23, 1225-1232	5	22
167	USP15 regulates type I interferon response and is required for pathogenesis of neuroinflammation. *Nature Immunology*, **2017**, 18, 54-63	19.1	51
166	MerTK-mediated regulation of myelin phagocytosis by macrophages generated from patients with MS. *Neurology: Neuroimmunology and NeuroInflammation*, **2017**, 4, e402	9.1	30
165	Divergent Neuroinflammatory Regulation of Microglial TREM Expression and Involvement of NF-B. *Frontiers in Cellular Neuroscience*, **2017**, 11, 56	6.1	31
164	Distinct age and differentiation-state dependent metabolic profiles of oligodendrocytes under optimal and stress conditions. *PLoS ONE*, **2017**, 12, e0182372	3.7	21
163	Potential Benefit of the Charge-Stabilized Nanostructure Saline RNS60 for Myelin Maintenance and Repair. *Scientific Reports*, **2016**, 6, 30020	4.9	14
162	MicroRNA Expression Patterns in Human Astrocytes in Relation to Anatomical Location and Age. *Journal of Neuropathology and Experimental Neurology*, **2016**, 75, 156-66	3.1	31
161	MerTK Is a Functional Regulator of Myelin Phagocytosis by Human Myeloid Cells. *Journal of Immunology*, **2016**, 196, 3375-84	5.3	71
160	Sphingosine-1-Phosphate Receptors in the Central Nervous and Immune Systems. *Current Drug Targets*, **2016**, 17, 1841-1850	3	39
159	CXCR7 Is Involved in Human Oligodendroglial Precursor Cell Maturation. *PLoS ONE*, **2016**, 11, e0146503	3.7	15
158	Glioblastoma-infiltrated innate immune cells resemble M0 macrophage phenotype. *JCI Insight*, **2016**, 1,	9.9	226
157	Production of IL-27 in multiple sclerosis lesions by astrocytes and myeloid cells: Modulation of local immune responses. *Glia*, **2016**, 64, 553-69	9	38
156	Astrocytes in multiple sclerosis. *Multiple Sclerosis Journal*, **2016**, 22, 1114-24	5	75
155	Type I interferons and microbial metabolites of tryptophan modulate astrocyte activity and central nervous system inflammation via the aryl hydrocarbon receptor. *Nature Medicine*, **2016**, 22, 586-97	50.5	629
154	Oligodendrogliopathy in Multiple Sclerosis: Low Glycolytic Metabolic Rate Promotes Oligodendrocyte Survival. *Journal of Neuroscience*, **2016**, 36, 4698-707	6.6	48
153	Effects of fumarates on circulating and CNS myeloid cells in multiple sclerosis. *Annals of Clinical and Translational Neurology*, **2016**, 3, 27-41	5.3	53

152	Peripheral nerve injury induces persistent vascular dysfunction and endoneurial hypoxia, contributing to the genesis of neuropathic pain. *Journal of Neuroscience*, **2015**, 35, 3346-59	6.6	65
151	Roles of microglia in brain development, tissue maintenance and repair. *Brain*, **2015**, 138, 1138-59	11.2	225
150	Netrin 1 regulates blood-brain barrier function and neuroinflammation. *Brain*, **2015**, 138, 1598-612	11.2	103
149	Properties of human central nervous system neurons in a glia-depleted (isolated) culture system. *Journal of Neuroscience Methods*, **2015**, 253, 142-50	3	2
148	Regulation of human glia by multiple sclerosis disease modifying therapies. *Seminars in Immunopathology*, **2015**, 37, 639-49	12	6
147	ISDN2014_0027: REMOVED: Identification of a unique molecular and functional microglia signature in health and disease. *International Journal of Developmental Neuroscience*, **2015**, 47, 5-5	2.7	1
146	Direct and indirect effects of immune and central nervous system-resident cells on human oligodendrocyte progenitor cell differentiation. *Journal of Immunology*, **2015**, 194, 761-72	5.3	58
145	Sequencing the immunopathologic heterogeneity in multiple sclerosis. *Annals of Clinical and Translational Neurology*, **2015**, 2, 873-4	5.3	1
144	Mitochondrial and bioenergetic dysfunction in trauma-induced painful peripheral neuropathy. *Molecular Pain*, **2015**, 11, 58	3.4	33
143	Fetal microglial phenotype in vitro carries memory of prior in vivo exposure to inflammation. *Frontiers in Cellular Neuroscience*, **2015**, 9, 294	6.1	35
142	P2Y12 expression and function in alternatively activated human microglia. *Neurology: Neuroimmunology and NeuroInflammation*, **2015**, 2, e80	9.1	105
141	Identification of a unique TGF-□dependent molecular and functional signature in microglia. *Nature Neuroscience*, **2014**, 17, 131-43	25.5	1532
140	Regulation of astrocyte activation by glycolipids drives chronic CNS inflammation. *Nature Medicine*, **2014**, 20, 1147-56	50.5	267
139	Innate Immunity in the CNS □A Focus on the Myeloid Cell **2014**, 9-35		
138	Role of p38MAPK in S1P receptor-mediated differentiation of human oligodendrocyte progenitors. *Glia*, **2014**, 62, 1361-75	9	42
137	Heterogeneity of oligodendrocyte progenitor cells in adult human brain. *Annals of Clinical and Translational Neurology*, **2014**, 1, 272-83	5.3	28
136	The PTEN inhibitor bisperoxovanadium enhances myelination by amplifying IGF-1 signaling in rat and human oligodendrocyte progenitors. *Glia*, **2014**, 62, 64-77	9	32
135	Mechanisms of action of fingolimod in multiple sclerosis. *Clinical and Experimental Neuroimmunology*, **2014**, 5, 49-54	0.4	6

134	A Novel Injectable Chitosan Sponge Containing Brain Derived Neurotrophic Factor (BDNF) to Enhance Human Oligodendrocyte Progenitor Cells (OPC) Differentiation. *Materials Research Society Symposia Proceedings*, **2014**, 1621, 127-132		
133	A novel microRNA-132-sirtuin-1 axis underlies aberrant B-cell cytokine regulation in patients with relapsing-remitting multiple sclerosis [corrected]. *PLoS ONE*, **2014**, 9, e105421	3.7	65
132	Dual effects of daily FTY720 on human astrocytes in vitro: relevance for neuroinflammation. *Journal of Neuroinflammation*, **2013**, 10, 41	10.1	43
131	Isolating, culturing, and polarizing primary human adult and fetal microglia. *Methods in Molecular Biology*, **2013**, 1041, 199-211	1.4	40
130	Oligodendrocyte progenitor cell susceptibility to injury in multiple sclerosis. *American Journal of Pathology*, **2013**, 183, 516-25	5.8	53
129	miR-155 as a multiple sclerosis-relevant regulator of myeloid cell polarization. *Annals of Neurology*, **2013**, 74, 709-20	9.4	162
128	Diminished Th17 (not Th1) responses underlie multiple sclerosis disease abrogation after hematopoietic stem cell transplantation. *Annals of Neurology*, **2013**, 73, 341-54	9.4	105
127	Full-length and fragmented netrin-1 in multiple sclerosis plaques are inhibitors of oligodendrocyte precursor cell migration. *American Journal of Pathology*, **2013**, 183, 673-80	5.8	31
126	Effects of Current Medical Therapies on Reparative and Neuroprotective Functions in Multiple Sclerosis **2013**, 203-231		
125	Basis for fluctuations in lymphocyte counts in fingolimod-treated patients with multiple sclerosis. *Neurology*, **2013**, 81, 1768-72	6.5	24
124	Cytotoxic NKG2C+ CD4 T cells target oligodendrocytes in multiple sclerosis. *Journal of Immunology*, **2013**, 190, 2510-8	5.3	60
123	Limited TCF7L2 expression in MS lesions. *PLoS ONE*, **2013**, 8, e72822	3.7	19
122	Assessment of sphingosine-1-phosphate receptor expression and associated intracellular signaling cascades in primary cells of the human central nervous system. *Methods in Molecular Biology*, **2012**, 874, 141-54	1.4	2
121	Human fetal oligodendrocyte progenitor cells from different gestational stages exhibit substantially different potential to myelinate. *Stem Cells and Development*, **2012**, 21, 1831-7	4.4	26
120	Oligodendrocyte precursor cell transplantation into organotypic cerebellar shiverer slices: a model to study myelination and myelin maintenance. *PLoS ONE*, **2012**, 7, e41237	3.7	14
119	Regulation of miRNA 219 and miRNA Clusters 338 and 17-92 in Oligodendrocytes. *Frontiers in Genetics*, **2012**, 3, 46	4.5	38
118	Comparison of polarization properties of human adult microglia and blood-derived macrophages. *Glia*, **2012**, 60, 717-27	9	320
117	Primary progressive multiple sclerosis: part of the MS disease spectrum or separate disease entity?. *Acta Neuropathologica*, **2012**, 123, 627-38	14.3	133

116	Neurobiological effects of sphingosine 1-phosphate receptor modulation in the cuprizone model. *FASEB Journal*, **2011**, 25, 1509-18	0.9	83
115	The tryptophan metabolite 3-hydroxyanthranilic acid plays anti-inflammatory and neuroprotective roles during inflammation: role of hemeoxygenase-1. *American Journal of Pathology*, **2011**, 179, 1360-72	5.8	97
114	Cells of the oligodendroglial lineage, myelination, and remyelination. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2011**, 1812, 184-93	6.9	163
113	Differential responses of human microglia and blood-derived myeloid cells to FTY720. *Journal of Neuroimmunology*, **2011**, 230, 10-6	3.5	60
112	The majority of infiltrating CD8 T lymphocytes in multiple sclerosis lesions is insensitive to enhanced PD-L1 levels on CNS cells. *Glia*, **2011**, 59, 841-56	9	33
111	Modulation of sphingosine 1-phosphate signaling in neurologic disease. *Neurology*, **2011**, 76, S1-2	6.5	2
110	A central role for RhoA during oligodendroglial maturation in the switch from netrin-1-mediated chemorepulsion to process elaboration. *Journal of Neurochemistry*, **2010**, 113, 1589-97	6	37
109	Contribution of astrocyte-derived IL-15 to CD8 T cell effector functions in multiple sclerosis. *Journal of Immunology*, **2010**, 185, 5693-703	5.3	71
108	Distinct properties of circulating CD8+ T cells in FTY720-treated patients with multiple sclerosis. *Archives of Neurology*, **2010**, 67, 1449-55		25
107	Distinct migratory and cytokine responses of human microglia and macrophages to ATP. *Brain, Behavior, and Immunity*, **2010**, 24, 1241-8	16.6	35
106	Fingolimod (FTY720) enhances remyelination following demyelination of organotypic cerebellar slices. *American Journal of Pathology*, **2010**, 176, 2682-94	5.8	216
105	Response of human oligodendrocyte progenitors to growth factors and axon signals. *Journal of Neuropathology and Experimental Neurology*, **2010**, 69, 930-44	3.1	38
104	New directions in multiple sclerosis therapy: matching therapy with pathogenesis. *Canadian Journal of Neurological Sciences*, **2010**, 37 Suppl 2, S42-8	1	1
103	Reconstitution of circulating lymphocyte counts in FTY720-treated MS patients. *Clinical Immunology*, **2010**, 137, 15-20	9	43
102	Netrin 1 and Dcc regulate oligodendrocyte process branching and membrane extension via Fyn and RhoA. *Development (Cambridge)*, **2009**, 136, 415-26	6.6	98
101	Rituximab in patients with primary progressive multiple sclerosis: results of a randomized double-blind placebo-controlled multicenter trial. *Annals of Neurology*, **2009**, 66, 460-71	9.4	629
100	Isolation and Culture of Primary Human CNS Neural Cells. *Springer Protocols*, **2009**, 87-104	0.3	3
99	Statin therapy inhibits remyelination in the central nervous system. *American Journal of Pathology*, **2009**, 174, 1880-90	5.8	99

98	Widespread immunoreactivity for neuronal nuclei in cultured human and rodent astrocytes. *Journal of Neurochemistry*, **2008**, 104, 1201-9	6	20
97	Central nervous system-directed effects of FTY720 (fingolimod). *Journal of the Neurological Sciences*, **2008**, 274, 13-7	3.2	136
96	Central nervous system effects of current and emerging multiple sclerosis-directed immuno-therapies. *Clinical Neurology and Neurosurgery*, **2008**, 110, 951-7	2	16
95	Cyclical and dose-dependent responses of adult human mature oligodendrocytes to fingolimod. *American Journal of Pathology*, **2008**, 173, 1143-52	5.8	86
94	Dendritic cell differentiation signals induce anti-inflammatory properties in human adult microglia. *Journal of Immunology*, **2008**, 181, 8288-97	5.3	39
93	Innate immune-mediated neuronal injury consequent to loss of astrocytes. *Journal of Neuropathology and Experimental Neurology*, **2008**, 67, 590-9	3.1	20
92	The CNS as a therapeutic target in multiple sclerosis. *Current Neurology and Neuroscience Reports*, **2008**, 8, 445-7	6.6	1
91	FTY720 modulates human oligodendrocyte progenitor process extension and survival. *Annals of Neurology*, **2008**, 63, 61-71	9.4	213
90	Simvastatin regulates oligodendroglial process dynamics and survival. *Glia*, **2007**, 55, 130-43	9	74
89	Contrasting potential of nitric oxide and peroxynitrite to mediate oligodendrocyte injury in multiple sclerosis. *Glia*, **2007**, 55, 926-34	9	58
88	Extensive cortical remyelination in patients with chronic multiple sclerosis. *Brain Pathology*, **2007**, 17, 129-38	6	218
87	The search for the missing links in multiple sclerosis. *Current Neurology and Neuroscience Reports*, **2007**, 7, 93-4	6.6	1
86	NKG2D-mediated cytotoxicity toward oligodendrocytes suggests a mechanism for tissue injury in multiple sclerosis. *Journal of Neuroscience*, **2007**, 27, 1220-8	6.6	77
85	Th1 polarization of CD4+ T cells by Toll-like receptor 3-activated human microglia. *Journal of Neuropathology and Experimental Neurology*, **2007**, 66, 848-59	3.1	27
84	Roles of immunoglobulins and B cells in multiple sclerosis: from pathogenesis to treatment. *Journal of Neuroimmunology*, **2006**, 180, 3-8	3.5	74
83	Natalizumab effects on immune cell responses in multiple sclerosis. *Annals of Neurology*, **2006**, 59, 748-54	9.4	168
82	Oral fingolimod (FTY720) for relapsing multiple sclerosis. *New England Journal of Medicine*, **2006**, 355, 1124-40	59.2	877
81	Continued administration of ciliary neurotrophic factor protects mice from inflammatory pathology in experimental autoimmune encephalomyelitis. *American Journal of Pathology*, **2006**, 169, 584-98	5.8	54

80	Oligodendrocyte/myelin injury and repair as a function of the central nervous system environment. *Clinical Neurology and Neurosurgery*, **2006**, 108, 245-9	2	11
79	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, 1296-9		16
78	Immunobiology of oligodendrocytes in multiple sclerosis. *Advances in Neurology*, **2006**, 98, 47-63		4
77	Th1 and Th2 lymphocyte migration across the human BBB is specifically regulated by interferon beta and copolymer-1. *Journal of Autoimmunity*, **2005**, 24, 119-24	15.5	37
76	Pathogenesis of multiple sclerosis. *Current Opinion in Neurology*, **2005**, 18, 225-30	7.1	115
75	Microglia and multiple sclerosis. *Journal of Neuroscience Research*, **2005**, 81, 363-73	4.4	160
74	TLR signaling tailors innate immune responses in human microglia and astrocytes. *Journal of Immunology*, **2005**, 175, 4320-30	5.3	543
73	Interferon beta promotes nerve growth factor secretion early in the course of multiple sclerosis. *Archives of Neurology*, **2005**, 62, 563-8		76
72	Microglial expression of the B7 family member B7 homolog 1 confers strong immune inhibition: implications for immune responses and autoimmunity in the CNS. *Journal of Neuroscience*, **2005**, 25, 2537-46	6.6	134
71	Multiple sclerosis and immune regulatory cells. *Brain*, **2004**, 127, 1915-6	11.2	7
70	Resistance of human adult oligodendrocytes to AMPA/kainate receptor-mediated glutamate injury. *Brain*, **2004**, 127, 2636-48	11.2	45
69	Type 2 monocyte and microglia differentiation mediated by glatiramer acetate therapy in patients with multiple sclerosis. *Journal of Immunology*, **2004**, 172, 7144-53	5.3	172
68	Inflammatory potential and migratory capacities across human brain endothelial cells of distinct glatiramer acetate-reactive T cells generated in treated multiple sclerosis patients. *Clinical Immunology*, **2004**, 111, 38-46	9	18
67	Distinctive properties of human adult brain-derived myelin progenitor cells. *American Journal of Pathology*, **2004**, 165, 2167-75	5.8	55
66	Inflammation and remyelination in the central nervous system: a tale of two systems. *American Journal of Pathology*, **2004**, 164, 1519-22	5.8	15
65	Regulation of cellular and molecular trafficking across human brain endothelial cells by Th1- and Th2-polarized lymphocytes. *Journal of Neuropathology and Experimental Neurology*, **2004**, 63, 223-32	3.1	31
64	Vulnerability of human neurons to T cell-mediated cytotoxicity. *Journal of Immunology*, **2003**, 171, 368-79	5.3	182
63	Regulation and functional effects of monocyte migration across human brain-derived endothelial cells. *Journal of Neuropathology and Experimental Neurology*, **2003**, 62, 412-9	3.1	69

62	Do myelin-directed antibodies predict multiple sclerosis?. *New England Journal of Medicine*, **2003**, 349, 107-9	59.2	34
61	Human brain endothelial cells supply support for monocyte immunoregulatory functions. *Journal of Neuroimmunology*, **2003**, 135, 96-106	3.5	9
60	Differential effects of Th1 and Th2 lymphocyte supernatants on human microglia. *Glia*, **2003**, 42, 36-45	9	31
59	Phagocytosis of apoptotic inflammatory cells by microglia and its therapeutic implications: termination of CNS autoimmune inflammation and modulation by interferon-beta. *Glia*, **2003**, 43, 231-42	9	58
58	Oligodendrocyte injury in multiple sclerosis: a role for p53. *Journal of Neurochemistry*, **2003**, 85, 635-44	6	73
57	Determinants of human B cell migration across brain endothelial cells. *Journal of Immunology*, **2003**, 170, 4497-505	5.3	155
56	ADP and AMP induce interleukin-1beta release from microglial cells through activation of ATP-primed P2X7 receptor channels. *Journal of Neuroscience*, **2002**, 22, 3061-9	6.6	140
55	Migration of multiple sclerosis lymphocytes through brain endothelium. *Archives of Neurology*, **2002**, 59, 391-7		99
54	NG2 immunoreactivity on human brain endothelial cells. *Acta Neuropathologica*, **2001**, 102, 313-20	14.3	18
53	Glial cell influence on the human blood-brain barrier. *Glia*, **2001**, 36, 145-55	9	254
52	Caspase 8 expression and signaling in Fas injury-resistant human fetal astrocytes. *Glia*, **2001**, 33, 217-24	9	34
51	Genetic models for CNS inflammation. *Nature Medicine*, **2001**, 7, 161-6	50.5	151
50	T lymphocytes conditioned with Interferon beta induce membrane and soluble VCAM on human brain endothelial cells. *Journal of Neuroimmunology*, **2001**, 115, 161-7	3.5	32
49	NK cell-mediated lysis of autologous human oligodendrocytes. *Journal of Neuroimmunology*, **2001**, 116, 107-15	3.5	42
48	Regulation of Th1 and Th2 lymphocyte migration by human adult brain endothelial cells. *Journal of Neuropathology and Experimental Neurology*, **2001**, 60, 1127-36	3.1	68
47	Interferon-gamma modulates human oligodendrocyte susceptibility to Fas-mediated apoptosis. *Journal of Neuropathology and Experimental Neurology*, **2000**, 59, 280-6	3.1	90
46	Brain-immune connection: Immuno-regulatory properties of CNS-resident cells. *Glia*, **2000**, 29, 293-304	9	289
45	Heterogeneity of T-lymphocyte function in primary progressive multiple sclerosis: Relation to magnetic resonance imaging lesion volume. *Annals of Neurology*, **2000**, 47, 234-237	9.4	21

44	NBI-5788, an altered MBP83-99 peptide, induces a T-helper 2-like immune response in multiple sclerosis patients. *Annals of Neurology*, **2000**, 48, 758-765	9.4	54
43	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. *Nature Medicine*, **2000**, 6, 1167-75	50.5	706
42	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. The Altered Peptide Ligand in Relapsing MS Study Group. *Nature Medicine*, **2000**, 6, 1176-82	50.5	446
41	Antigen and superantigen presentation in the human CNS. *Journal of Neuroimmunology*, **2000**, 107, 118-23	3.5	7
40	Characterization of T cell lines derived from glatiramer-acetate-treated multiple sclerosis patients. *Journal of Neuroimmunology*, **2000**, 108, 201-6	3.5	63
39	CD40 engagement stimulates IL-12 p70 production by human microglial cells: basis for Th1 polarization in the CNS. *Journal of Neuroimmunology*, **2000**, 102, 44-50	3.5	63
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