

Jack P Antel

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Identification of a unique TGF- β -dependent molecular and functional signature in microglia. <i>Nature Neuroscience</i> , 2014 , 17, 131-43	25.5	1532
222	Oral fingolimod (FTY720) for relapsing multiple sclerosis. <i>New England Journal of Medicine</i> , 2006 , 355, 1124-40	59.2	877
221	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, 1167-75	50.5	706
220	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, 460-71	9.4	629
219	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, 586-97	50.5	629
218	TLR signaling tailors innate immune responses in human microglia and astrocytes. <i>Journal of Immunology</i> , 2005 , 175, 4320-30	5.3	543
217	Neuroblastoma x spinal cord (NSC) hybrid cell lines resemble developing motor neurons. <i>Developmental Dynamics</i> , 1992 , 194, 209-21	2.9	533
216	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. <i>Nature Medicine</i> , 2000 , 6, 1176-82	50.5	446
215	iPSC-Derived Human Microglia-like Cells to Study Neurological Diseases. <i>Neuron</i> , 2017 , 94, 278-293.e9	13.9	445
214	Microglial control of astrocytes in response to microbial metabolites. <i>Nature</i> , 2018 , 557, 724-728	50.4	415
213	Multiple sclerosis: Fas signaling in oligodendrocyte cell death. <i>Journal of Experimental Medicine</i> , 1996 , 184, 2361-70	16.6	331
212	Comparison of polarization properties of human adult microglia and blood-derived macrophages. <i>Glia</i> , 2012 , 60, 717-27	9	320
211	Brain-immune connection: Immuno-regulatory properties of CNS-resident cells. <i>Glia</i> , 2000 , 29, 293-304	9	289
210	Proton magnetic resonance spectroscopic imaging for metabolic characterization of demyelinating plaques. <i>Annals of Neurology</i> , 1992 , 31, 235-41	9.4	275
209	Regulation of astrocyte activation by glycolipids drives chronic CNS inflammation. <i>Nature Medicine</i> , 2014 , 20, 1147-56	50.5	267
208	Chemical pathology of acute demyelinating lesions and its correlation with disability. <i>Annals of Neurology</i> , 1995 , 38, 901-9	9.4	267
207	Interferon beta-1b decreases the migration of T lymphocytes in vitro: effects on matrix metalloproteinase-9. <i>Annals of Neurology</i> , 1996 , 40, 853-63	9.4	266

206	Glial cell influence on the human blood-brain barrier. <i>Glia</i> , 2001 , 36, 145-55	9	254
205	An updated histological classification system for multiple sclerosis lesions. <i>Acta Neuropathologica</i> , 2017 , 133, 13-24	14.3	253
204	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, 345-53	4.4	251
203	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, 154-9	4.4	243
202	Glioblastoma-infiltrated innate immune cells resemble M0 macrophage phenotype. <i>JCI Insight</i> , 2016 , 1,	9.9	226
201	Roles of microglia in brain development, tissue maintenance and repair. <i>Brain</i> , 2015 , 138, 1138-59	11.2	225
200	Extensive cortical remyelination in patients with chronic multiple sclerosis. <i>Brain Pathology</i> , 2007 , 17, 129-38	6	218
199	Fingolimod (FTY720) enhances remyelination following demyelination of organotypic cerebellar slices. <i>American Journal of Pathology</i> , 2010 , 176, 2682-94	5.8	216
198	FTY720 modulates human oligodendrocyte progenitor process extension and survival. <i>Annals of Neurology</i> , 2008 , 63, 61-71	9.4	213
197	Vulnerability of human neurons to T cell-mediated cytotoxicity. <i>Journal of Immunology</i> , 2003 , 171, 368-79	9.3	182
196	Use of proton magnetic resonance spectroscopy for monitoring disease progression in multiple sclerosis. <i>Annals of Neurology</i> , 1994 , 36, 76-82	9.4	173
195	Type 2 monocyte and microglia differentiation mediated by glatiramer acetate therapy in patients with multiple sclerosis. <i>Journal of Immunology</i> , 2004 , 172, 7144-53	5.3	172
194	Natalizumab effects on immune cell responses in multiple sclerosis. <i>Annals of Neurology</i> , 2006 , 59, 748-54	5.4	168
193	Control of tumor-associated macrophages and T cells in glioblastoma via AHR and CD39. <i>Nature Neuroscience</i> , 2019 , 22, 729-740	25.5	166
192	Cells of the oligodendroglial lineage, myelination, and remyelination. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011 , 1812, 184-93	6.9	163
191	miR-155 as a multiple sclerosis-relevant regulator of myeloid cell polarization. <i>Annals of Neurology</i> , 2013 , 74, 709-20	9.4	162
190	Microglia and multiple sclerosis. <i>Journal of Neuroscience Research</i> , 2005 , 81, 363-73	4.4	160
189	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, 732-40	6.5	157

188	Determinants of human B cell migration across brain endothelial cells. <i>Journal of Immunology</i> , 2003 , 170, 4497-505	5.3	155
187	B7/BB-1 antigen expression on adult human microglia studied in vitro and in situ. <i>European Journal of Immunology</i> , 1994 , 24, 3031-7	6.1	154
186	Multiple sclerosis: magnetization transfer MR imaging of white matter before lesion appearance on T2-weighted images. <i>Radiology</i> , 2000 , 215, 824-30	20.5	153
185	Genetic models for CNS inflammation. <i>Nature Medicine</i> , 2001 , 7, 161-6	50.5	151
184	Glioblastoma stem cell-derived exosomes induce M2 macrophages and PD-L1 expression on human monocytes. <i>OncImmunology</i> , 2018 , 7, e1412909	7.2	151
183	ADP and AMP induce interleukin-1beta release from microglial cells through activation of ATP-primed P2X7 receptor channels. <i>Journal of Neuroscience</i> , 2002 , 22, 3061-9	6.6	140
182	Central nervous system-directed effects of FTY720 (fingolimod). <i>Journal of the Neurological Sciences</i> , 2008 , 274, 13-7	3.2	136
181	Biology of adult human microglia in culture: comparisons with peripheral blood monocytes and astrocytes. <i>Journal of Neuropathology and Experimental Neurology</i> , 1992 , 51, 538-49	3.1	135
180	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, 2537-46	6.6	134
179	Primary progressive multiple sclerosis: part of the MS disease spectrum or separate disease entity?. <i>Acta Neuropathologica</i> , 2012 , 123, 627-38	14.3	133
178	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	11.5	128
177	MAFG-driven astrocytes promote CNS inflammation. <i>Nature</i> , 2020 , 578, 593-599	50.4	125
176	p75 neurotrophin receptor expression on adult human oligodendrocytes: signaling without cell death in response to NGF. <i>Journal of Neuroscience</i> , 1998 , 18, 1297-304	6.6	116
175	Pathogenesis of multiple sclerosis. <i>Current Opinion in Neurology</i> , 2005 , 18, 225-30	7.1	115
174	Peripheral blood gamma-delta T cells lyse fresh human brain-derived oligodendrocytes. <i>Annals of Neurology</i> , 1991 , 30, 794-800	9.4	112
173	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	7.3	110
172	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	11.5	108
171	Diminished Th17 (not Th1) responses underlie multiple sclerosis disease abrogation after hematopoietic stem cell transplantation. <i>Annals of Neurology</i> , 2013 , 73, 341-54	9.4	105

170	P2Y12 expression and function in alternatively activated human microglia. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2015 , 2, e80	9.1	105
169	Netrin 1 regulates blood-brain barrier function and neuroinflammation. <i>Brain</i> , 2015 , 138, 1598-612	11.2	103
168	Enhanced Protein Kinase C Activity Correlates with the Growth Rate of Malignant Gliomas in Vitro. <i>Neurosurgery</i> , 1991 , 29, 880-887	3.2	100
167	Statin therapy inhibits remyelination in the central nervous system. <i>American Journal of Pathology</i> , 2009 , 174, 1880-90	5.8	99
166	Migration of multiple sclerosis lymphocytes through brain endothelium. <i>Archives of Neurology</i> , 2002 , 59, 391-7		99
165	Netrin 1 and Dcc regulate oligodendrocyte process branching and membrane extension via Fyn and RhoA. <i>Development (Cambridge)</i> , 2009 , 136, 415-26	6.6	98
164	The tryptophan metabolite 3-hydroxyanthranilic acid plays anti-inflammatory and neuroprotective roles during inflammation: role of hemeoxygenase-1. <i>American Journal of Pathology</i> , 2011 , 179, 1360-72	5.8	97
163	Myelin basic protein and human coronavirus 229E cross-reactive T cells in multiple sclerosis. <i>Annals of Neurology</i> , 1996 , 39, 233-40	9.4	97
162	Peripherally derived macrophages modulate microglial function to reduce inflammation after CNS injury. <i>PLoS Biology</i> , 2018 , 16, e2005264	9.7	93
161	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	3.2	91
160	Interferon-gamma modulates human oligodendrocyte susceptibility to Fas-mediated apoptosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2000 , 59, 280-6	3.1	90
159	A human glial hybrid cell line differentially expressing genes subserving oligodendrocyte and astrocyte phenotype. <i>Journal of Neurobiology</i> , 1995 , 26, 283-93		89
158	Single-cell RNA-seq reveals that glioblastoma recapitulates a normal neurodevelopmental hierarchy. <i>Nature Communications</i> , 2020 , 11, 3406	17.4	88
157	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	3.1	87
156	Cyclical and dose-dependent responses of adult human mature oligodendrocytes to fingolimod. <i>American Journal of Pathology</i> , 2008 , 173, 1143-52	5.8	86
155	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	5.3	83
154	Neurobiological effects of sphingosine 1-phosphate receptor modulation in the cuprizone model. <i>FASEB Journal</i> , 2011 , 25, 1509-18	0.9	83
153	Interferon- β secretion by peripheral blood T-cell subsets in multiple sclerosis: Correlation with disease phase and interferon- β therapy. <i>Annals of Neurology</i> , 1999 , 45, 247-250	9.4	78

152	Differential proliferative response of human and mouse astrocytes to gamma-interferon. <i>Glia</i> , 1992 , 6, 269-80	9	78
151	T follicular helper cells in human efferent lymph retain lymphoid characteristics. <i>Journal of Clinical Investigation</i> , 2019 , 129, 3185-3200	15.9	78
150	NKG2D-mediated cytotoxicity toward oligodendrocytes suggests a mechanism for tissue injury in multiple sclerosis. <i>Journal of Neuroscience</i> , 2007 , 27, 1220-8	6.6	77
149	Interferon beta promotes nerve growth factor secretion early in the course of multiple sclerosis. <i>Archives of Neurology</i> , 2005 , 62, 563-8		76
148	Astrocytes in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2016 , 22, 1114-24	5	75
147	Simvastatin regulates oligodendroglial process dynamics and survival. <i>Glia</i> , 2007 , 55, 130-43	9	74
146	Roles of immunoglobulins and B cells in multiple sclerosis: from pathogenesis to treatment. <i>Journal of Neuroimmunology</i> , 2006 , 180, 3-8	3.5	74
145	Environmental Control of Astrocyte Pathogenic Activities in CNS Inflammation. <i>Cell</i> , 2019 , 176, 581-596. 548	6.8	74
144	Oligodendrocyte injury in multiple sclerosis: a role for p53. <i>Journal of Neurochemistry</i> , 2003 , 85, 635-44	6	73
143	MerTK Is a Functional Regulator of Myelin Phagocytosis by Human Myeloid Cells. <i>Journal of Immunology</i> , 2016 , 196, 3375-84	5.3	71
142	Contribution of astrocyte-derived IL-15 to CD8 T cell effector functions in multiple sclerosis. <i>Journal of Immunology</i> , 2010 , 185, 5693-703	5.3	71
141	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, 273-8	9.4	70
140	Regulation and functional effects of monocyte migration across human brain-derived endothelial cells. <i>Journal of Neuropathology and Experimental Neurology</i> , 2003 , 62, 412-9	3.1	69
139	Regulation of Th1 and Th2 lymphocyte migration by human adult brain endothelial cells. <i>Journal of Neuropathology and Experimental Neurology</i> , 2001 , 60, 1127-36	3.1	68
138	Peripheral nerve injury induces persistent vascular dysfunction and endoneurial hypoxia, contributing to the genesis of neuropathic pain. <i>Journal of Neuroscience</i> , 2015 , 35, 3346-59	6.6	65
137	A novel microRNA-132-sirtuin-1 axis underlies aberrant B-cell cytokine regulation in patients with relapsing-remitting multiple sclerosis [corrected]. <i>PLoS ONE</i> , 2014 , 9, e105421	3.7	65
136	Characterization of T cell lines derived from glatiramer-acetate-treated multiple sclerosis patients. <i>Journal of Neuroimmunology</i> , 2000 , 108, 201-6	3.5	63
135	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	3.5	63

134	Migratory behavior of lymphocytes isolated from multiple sclerosis patients: effects of interferon beta-1b therapy. <i>Annals of Neurology</i> , 1999 , 46, 319-24	9.4	63
133	Kinin B1 receptor expression and function on human brain endothelial cells. <i>Journal of Neuropathology and Experimental Neurology</i> , 2000 , 59, 896-906	3.1	61
132	Cytotoxic NKG2C+ CD4 T cells target oligodendrocytes in multiple sclerosis. <i>Journal of Immunology</i> , 2013 , 190, 2510-8	5.3	60
131	Differential responses of human microglia and blood-derived myeloid cells to FTY720. <i>Journal of Neuroimmunology</i> , 2011 , 230, 10-6	3.5	60
130	Dimethyl fumarate-induced lymphopenia in MS due to differential T-cell subset apoptosis. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2017 , 4, e340	9.1	59
129	Metabolic Control of Astrocyte Pathogenic Activity via cPLA2-MAVS. <i>Cell</i> , 2019 , 179, 1483-1498.e22	56.2	59
128	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, 761-72	5.3	58
127	Contrasting potential of nitric oxide and peroxynitrite to mediate oligodendrocyte injury in multiple sclerosis. <i>Glia</i> , 2007 , 55, 926-34	9	58
126	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, 231-42 ⁹		58
125	Distinctive properties of human adult brain-derived myelin progenitor cells. <i>American Journal of Pathology</i> , 2004 , 165, 2167-75	5.8	55
124	Continued administration of ciliary neurotrophic factor protects mice from inflammatory pathology in experimental autoimmune encephalomyelitis. <i>American Journal of Pathology</i> , 2006 , 169, 584-98	5.8	54
123	NBI-5788, an altered MBP83-99 peptide, induces a T-helper 2like immune response in multiple sclerosis patients. <i>Annals of Neurology</i> , 2000 , 48, 758-765	9.4	54
122	Oligodendrocyte progenitor cell susceptibility to injury in multiple sclerosis. <i>American Journal of Pathology</i> , 2013 , 183, 516-25	5.8	53
121	Effects of fumarates on circulating and CNS myeloid cells in multiple sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2016 , 3, 27-41	5.3	53
120	USP15 regulates type I interferon response and is required for pathogenesis of neuroinflammation. <i>Nature Immunology</i> , 2017 , 18, 54-63	19.1	51
119	Oligodendrocyte lysis by CD4+ T cells independent of tumor necrosis factor. <i>Annals of Neurology</i> , 1994 , 35, 341-8	9.4	50
118	Mechanism of gammadelta T cell-induced human oligodendrocyte cytotoxicity: relevance to multiple sclerosis. <i>Journal of Neuroimmunology</i> , 1998 , 87, 49-61	3.5	48
117	Lymphocyte migration and multiple sclerosis: relation with disease course and therapy. <i>Annals of Neurology</i> , 1999 , 46, 253-6	9.4	48

116	Oligodendroglipathy in Multiple Sclerosis: Low Glycolytic Metabolic Rate Promotes Oligodendrocyte Survival. <i>Journal of Neuroscience</i> , 2016 , 36, 4698-707	6.6	48
115	B7 expression and antigen presentation by human brain endothelial cells: requirement for proinflammatory cytokines. <i>Journal of Neuropathology and Experimental Neurology</i> , 2000 , 59, 129-36	3.1	47
114	p53 induction by tumor necrosis factor-alpha and involvement of p53 in cell death of human oligodendrocytes. <i>Journal of Neurochemistry</i> , 1999 , 73, 605-11	6	46
113	Small-Molecule Stabilization of 14-3-3 Protein-Protein Interactions Stimulates Axon Regeneration. <i>Neuron</i> , 2017 , 93, 1082-1093.e5	13.9	45
112	Resistance of human adult oligodendrocytes to AMPA/kainate receptor-mediated glutamate injury. <i>Brain</i> , 2004 , 127, 2636-48	11.2	45
111	Expression of a homologue of rat NG2 on human microglia. <i>Glia</i> , 1999 , 27, 259-68	9	45
110	Dual effects of daily FTY720 on human astrocytes in vitro: relevance for neuroinflammation. <i>Journal of Neuroinflammation</i> , 2013 , 10, 41	10.1	43
109	Reconstitution of circulating lymphocyte counts in FTY720-treated MS patients. <i>Clinical Immunology</i> , 2010 , 137, 15-20	9	43
108	Role of p38MAPK in S1P receptor-mediated differentiation of human oligodendrocyte progenitors. <i>Glia</i> , 2014 , 62, 1361-75	9	42
107	NK cell-mediated lysis of autologous human oligodendrocytes. <i>Journal of Neuroimmunology</i> , 2001 , 116, 107-15	3.5	42
106	Isolating, culturing, and polarizing primary human adult and fetal microglia. <i>Methods in Molecular Biology</i> , 2013 , 1041, 199-211	1.4	40
105	Dendritic cell differentiation signals induce anti-inflammatory properties in human adult microglia. <i>Journal of Immunology</i> , 2008 , 181, 8288-97	5.3	39
104	Sphingosine-1-Phosphate Receptors in the Central Nervous and Immune Systems. <i>Current Drug Targets</i> , 2016 , 17, 1841-1850	3	39
103	Regulation of miRNA 219 and miRNA Clusters 338 and 17-92 in Oligodendrocytes. <i>Frontiers in Genetics</i> , 2012 , 3, 46	4.5	38
102	Response of human oligodendrocyte progenitors to growth factors and axon signals. <i>Journal of Neuropathology and Experimental Neurology</i> , 2010 , 69, 930-44	3.1	38
101	Multiple sclerosis and central nervous system demyelination. <i>Journal of Autoimmunity</i> , 1999 , 13, 297-306	5.5	38
100	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	4	38
99	Production of IL-27 in multiple sclerosis lesions by astrocytes and myeloid cells: Modulation of local immune responses. <i>Glia</i> , 2016 , 64, 553-69	9	38

98	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, 1589-97	6	37
97	Th1 and Th2 lymphocyte migration across the human BBB is specifically regulated by interferon beta and copolymer-1. <i>Journal of Autoimmunity</i> , 2005 , 24, 119-24	15.5	37
96	Fetal microglial phenotype in vitro carries memory of prior in vivo exposure to inflammation. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 294	6.1	35
95	Distinct migratory and cytokine responses of human microglia and macrophages to ATP. <i>Brain, Behavior, and Immunity</i> , 2010 , 24, 1241-8	16.6	35
94	Immune regulation and CNS autoimmune disease. <i>Journal of Neuroimmunology</i> , 1999 , 100, 181-9	3.5	35
93	Do myelin-directed antibodies predict multiple sclerosis?. <i>New England Journal of Medicine</i> , 2003 , 349, 107-9	59.2	34
92	Caspase 8 expression and signaling in Fas injury-resistant human fetal astrocytes. <i>Glia</i> , 2001 , 33, 217-24	9	34
91	Mitochondrial and bioenergetic dysfunction in trauma-induced painful peripheral neuropathy. <i>Molecular Pain</i> , 2015 , 11, 58	3.4	33
90	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, 841-56	9	33
89	Immune regulatory and effector properties of human adult microglia studies in vitro and in situ. <i>Advances in Neuroimmunology</i> , 1994 , 4, 273-81		33
88	The PTEN inhibitor bisperoxovanadium enhances myelination by amplifying IGF-1 signaling in rat and human oligodendrocyte progenitors. <i>Glia</i> , 2014 , 62, 64-77	9	32
87	T lymphocytes conditioned with Interferon beta induce membrane and soluble VCAM on human brain endothelial cells. <i>Journal of Neuroimmunology</i> , 2001 , 115, 161-7	3.5	32
86	MicroRNA Expression Patterns in Human Astrocytes in Relation to Anatomical Location and Age. <i>Journal of Neuropathology and Experimental Neurology</i> , 2016 , 75, 156-66	3.1	31
85	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, 673-80	5.8	31
84	Divergent Neuroinflammatory Regulation of Microglial TREM Expression and Involvement of NF- κ B. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 56	6.1	31
83	Differential effects of Th1 and Th2 lymphocyte supernatants on human microglia. <i>Glia</i> , 2003 , 42, 36-45	9	31
82	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, 223-32	3.1	31
81	MerTK-mediated regulation of myelin phagocytosis by macrophages generated from patients with MS. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2017 , 4, e402	9.1	30

80	Barcoded viral tracing of single-cell interactions in central nervous system inflammation. <i>Science</i> , 2021 , 372,	33.3	29
79	Heterogeneity of oligodendrocyte progenitor cells in adult human brain. <i>Annals of Clinical and Translational Neurology</i> , 2014 , 1, 272-83	5.3	28
78	Human central nervous system astrocytes support survival and activation of B cells: implications for MS pathogenesis. <i>Journal of Neuroinflammation</i> , 2018 , 15, 114	10.1	27
77	Th1 polarization of CD4+ T cells by Toll-like receptor 3-activated human microglia. <i>Journal of Neuropathology and Experimental Neurology</i> , 2007 , 66, 848-59	3.1	27
76	Human fetal oligodendrocyte progenitor cells from different gestational stages exhibit substantially different potential to myelinate. <i>Stem Cells and Development</i> , 2012 , 21, 1831-7	4.4	26
75	The Identity of Human Tissue-Emigrant CD8 T Cells. <i>Cell</i> , 2020 , 183, 1946-1961.e15	56.2	25
74	Distinct properties of circulating CD8+ T cells in FTY720-treated patients with multiple sclerosis. <i>Archives of Neurology</i> , 2010 , 67, 1449-55		25
73	Basis for fluctuations in lymphocyte counts in fingolimod-treated patients with multiple sclerosis. <i>Neurology</i> , 2013 , 81, 1768-72	6.5	24
72	Developmental trajectory of oligodendrocyte progenitor cells in the human brain revealed by single cell RNA sequencing. <i>Glia</i> , 2020 , 68, 1291-1303	9	22
71	Reconstitution of the peripheral immune repertoire following withdrawal of fingolimod. <i>Multiple Sclerosis Journal</i> , 2017 , 23, 1225-1232	5	22
70	Heterogeneity of T-lymphocyte function in primary progressive multiple sclerosis: Relation to magnetic resonance imaging lesion volume. <i>Annals of Neurology</i> , 2000 , 47, 234-237	9.4	21
69	HTLV type 1 Tax transduction in microglial cells and astrocytes by lentiviral vectors. <i>AIDS Research and Human Retroviruses</i> , 2000 , 16, 1771-6	1.6	21
68	Distinct age and differentiation-state dependent metabolic profiles of oligodendrocytes under optimal and stress conditions. <i>PLoS ONE</i> , 2017 , 12, e0182372	3.7	21
67	Transcriptomic and clonal characterization of T cells in the human central nervous system. <i>Science Immunology</i> , 2020 , 5,	28	21
66	Widespread immunoreactivity for neuronal nuclei in cultured human and rodent astrocytes. <i>Journal of Neurochemistry</i> , 2008 , 104, 1201-9	6	20
65	Innate immune-mediated neuronal injury consequent to loss of astrocytes. <i>Journal of Neuropathology and Experimental Neurology</i> , 2008 , 67, 590-9	3.1	20
64	Lesion stage-dependent causes for impaired remyelination in MS. <i>Acta Neuropathologica</i> , 2020 , 140, 359-375	14.3	20
63	Sublethal oligodendrocyte injury: A reversible condition in multiple sclerosis?. <i>Annals of Neurology</i> , 2017 , 81, 811-824	9.4	19

62	Limited TCF7L2 expression in MS lesions. <i>PLoS ONE</i> , 2013 , 8, e72822	3.7	19
61	Inflammatory potential and migratory capacities across human brain endothelial cells of distinct glatiramer acetate-reactive T cells generated in treated multiple sclerosis patients. <i>Clinical Immunology</i> , 2004 , 111, 38-46	9	18
60	NG2 immunoreactivity on human brain endothelial cells. <i>Acta Neuropathologica</i> , 2001 , 102, 313-20	14.3	18
59	Deep learning for high-throughput quantification of oligodendrocyte ensheathment at single-cell resolution. <i>Communications Biology</i> , 2019 , 2, 116	6.7	17
58	Central nervous system effects of current and emerging multiple sclerosis-directed immuno-therapies. <i>Clinical Neurology and Neurosurgery</i> , 2008 , 110, 951-7	2	16
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