

Wendy B Macklin

List of Publications by Year in descending order

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73
papers

5,312
citations

126907

33
h-index

88630

70
g-index

87
all docs

87
docs citations

87
times ranked

6386
citing authors

#	ARTICLE	IF	CITATIONS
1	Bace1 modulates myelination in the central and peripheral nervous system. <i>Nature Neuroscience</i> , 2006, 9, 1520-1525.	14.8	550
2	Differentiation and Death of Premyelinating Oligodendrocytes in Developing Rodent Brain. <i>Journal of Cell Biology</i> , 1997, 137, 459-468.	5.2	349
3	Proteolipid Promoter Activity Distinguishes Two Populations of NG2-Positive Cells throughout Neonatal Cortical Development. <i>Journal of Neuroscience</i> , 2002, 22, 876-885.	3.6	328
4	Constitutively Active Akt Induces Enhanced Myelination in the CNS. <i>Journal of Neuroscience</i> , 2008, 28, 7174-7183.	3.6	310
5	Akt Signals through the Mammalian Target of Rapamycin Pathway to Regulate CNS Myelination. <i>Journal of Neuroscience</i> , 2009, 29, 6860-6870.	3.6	284
6	Dynamics and Mechanisms of CNS Myelination. <i>Developmental Cell</i> , 2015, 32, 447-458.	7.0	246
7	Inducible site-specific recombination in myelinating cells. <i>Genesis</i> , 2003, 35, 63-72.	1.6	241
8	Glutamate Stimulates Oligodendrocyte Progenitor Migration Mediated via an α 5 Integrin/Myelin Proteolipid Protein Complex. <i>Journal of Neuroscience</i> , 2006, 26, 2458-2466.	3.6	180
9	Akt-Mediated Survival of Oligodendrocytes Induced by Neuregulins. <i>Journal of Neuroscience</i> , 2000, 20, 7622-7630.	3.6	169
10	Mammalian Target of Rapamycin Promotes Oligodendrocyte Differentiation, Initiation and Extent of CNS Myelination. <i>Journal of Neuroscience</i> , 2014, 34, 4453-4465.	3.6	151
11	Conditional Ablation of Raptor or Rictor Has Differential Impact on Oligodendrocyte Differentiation and CNS Myelination. <i>Journal of Neuroscience</i> , 2014, 34, 4466-4480.	3.6	141
12	The neural androgen receptor: a therapeutic target for myelin repair in chronic demyelination. <i>Brain</i> , 2013, 136, 132-146.	7.6	135
13	A New Model of Cuprizone-Mediated Demyelination/Remyelination. <i>ASN Neuro</i> , 2014, 6, 175909141455195.	2.7	121
14	Intestinal microbiota shapes gut physiology and regulates enteric neurons and glia. <i>Microbiome</i> , 2021, 9, 210.	11.1	108
15	Progesterone and Nestorone Facilitate Axon Remyelination: A Role for Progesterone Receptors. <i>Endocrinology</i> , 2011, 152, 3820-3831.	2.8	107
16	Human antibodies against the myelin oligodendrocyte glycoprotein can cause complement-dependent demyelination. <i>Journal of Neuroinflammation</i> , 2017, 14, 208.	7.2	105
17	Olig1 Function Is Required for Oligodendrocyte Differentiation in the Mouse Brain. <i>Journal of Neuroscience</i> , 2015, 35, 4386-4402.	3.6	88
18	Myelin Proteolipid Protein Forms a Complex with Integrins and May Participate in Integrin Receptor Signaling in Oligodendrocytes. <i>Journal of Neuroscience</i> , 2002, 22, 7398-7407.	3.6	80

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19	Interaction of mTOR and Erk1/2 signaling to regulate oligodendrocyte differentiation. <i>Glia</i> , 2014, 62, 2096-2109.	4.9	80
20	Zebrafish as a model to investigate <scp>CNS</scp> myelination. <i>Glia</i> , 2015, 63, 177-193.	4.9	80
21	Inhibitors of myelination: ECM changes, CSPGs and PTPs. <i>Experimental Neurology</i> , 2014, 251, 39-46.	4.1	66
22	Independent and cooperative roles of the Mek/ERK1/2–MAPK and PI3K/Akt/mTOR pathways during developmental myelination and in adulthood. <i>Glia</i> , 2019, 67, 1277-1295.	4.9	64
23	Human Neural Precursor Cells Promote Neurologic Recovery in a Viral Model of Multiple Sclerosis. <i>Stem Cell Reports</i> , 2014, 2, 825-837.	4.8	63
24	SIRT3 Deacetylates Ceramide Synthases. <i>Journal of Biological Chemistry</i> , 2016, 291, 1957-1973.	3.4	63
25	mTOR: A Link from the Extracellular Milieu to Transcriptional Regulation of Oligodendrocyte Development. <i>ASN Neuro</i> , 2013, 5, AN20120092.	2.7	62
26	A mouse model for testing remyelinating therapies. <i>Experimental Neurology</i> , 2016, 283, 330-340.	4.1	62
27	Lipoprotein Lipase Is a Feature of Alternatively-Activated Microglia and May Facilitate Lipid Uptake in the CNS During Demyelination. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 57.	2.9	59
28	Morphometric analysis of oligodendrocytes in the adult mouse frontal cortex. <i>Journal of Neuroscience Research</i> , 2007, 85, 2080-2086.	2.9	58
29	Production, characterization, and efficient transfection of highly pure oligodendrocyte precursor cultures from mouse embryonic neural progenitors. <i>Glia</i> , 2008, 56, 1339-1352.	4.9	58
30	Olig1 Acetylation and Nuclear Export Mediate Oligodendrocyte Development. <i>Journal of Neuroscience</i> , 2015, 35, 15875-15893.	3.6	54
31	Concentration-dependent effects of CSF1R inhibitors on oligodendrocyte progenitor cells ex vivo and in vivo. <i>Experimental Neurology</i> , 2019, 318, 32-41.	4.1	53
32	Myelin-specific multiple sclerosis antibodies cause complement-dependent oligodendrocyte loss and demyelination. <i>Acta Neuropathologica Communications</i> , 2017, 5, 25.	5.2	51
33	Myelin Proteolipid Protein Complexes with Λv Integrin and AMPA Receptors In Vivo and Regulates AMPA-Dependent Oligodendrocyte Progenitor Cell Migration through the Modulation of Cell-Surface GluR2 Expression. <i>Journal of Neuroscience</i> , 2015, 35, 12018-12032.	3.6	43
34	Expression of Proteolipid Protein Gene in Spinal Cord Stem Cells and Early Oligodendrocyte Progenitor Cells Is Dispensable for Normal Cell Migration and Myelination. <i>Journal of Neuroscience</i> , 2014, 34, 1333-1343.	3.6	34
35	Mild myelin disruption elicits early alteration in behavior and proliferation in the subventricular zone. <i>ELife</i> , 2018, 7, .	6.0	33
36	Nutritional regulation of oligodendrocyte differentiation regulates perineuronal net remodeling in the median eminence. <i>Cell Reports</i> , 2021, 36, 109362.	6.4	33

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37	Mechanistic Target of Rapamycin Regulates the Oligodendrocyte Cytoskeleton during Myelination. <i>Journal of Neuroscience</i> , 2020, 40, 2993-3007.	3.6	31
38	Two-photon imaging of remyelination of spinal cord axons by engrafted neural precursor cells in a viral model of multiple sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2349-55.	7.1	30
39	Long-lasting masculinizing effects of postnatal androgens on myelin governed by the brain androgen receptor. <i>PLoS Genetics</i> , 2017, 13, e1007049.	3.5	30
40	The Actin Cytoskeleton in Myelinating Cells. <i>Neurochemical Research</i> , 2020, 45, 684-693.	3.3	30
41	Signaling mechanisms regulating myelination in the central nervous system. <i>Neuroscience Bulletin</i> , 2013, 29, 199-215.	2.9	29
42	Delayed inhibition of tonic inhibition enhances functional recovery following experimental ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1005-1014.	4.3	28
43	Intrinsic and extrinsic regulators of oligodendrocyte progenitor proliferation and differentiation. <i>Seminars in Cell and Developmental Biology</i> , 2021, 116, 16-24.	5.0	26
44	Juvenile striatal white matter is resistant to ischemia-induced damage. <i>Glia</i> , 2016, 64, 1972-1986.	4.9	24
45	Distinct patterns of glia repair and remyelination in antibody-mediated demyelination models of multiple sclerosis and neuromyelitis optica. <i>Glia</i> , 2018, 66, 2575-2588.	4.9	23
46	Distinct modes of migration position oligodendrocyte precursors for localized cell division in the developing spinal cord. <i>Journal of Neuroscience Research</i> , 2009, 87, 3320-3330.	2.9	22
47	Neuroprotection by central nervous system remyelination: Molecular, cellular, and functional considerations. <i>Journal of Neuroscience Research</i> , 2016, 94, 1411-1420.	2.9	22
48	The Myelin Brake: When Enough Is Enough. <i>Science Signaling</i> , 2010, 3, pe32.	3.6	21
49	Automatic and adaptive heterogeneous refractive index compensation for light-sheet microscopy. <i>Nature Communications</i> , 2017, 8, 612.	12.8	21
50	The mechanistic target of rapamycin pathway downregulates bone morphogenetic protein signaling to promote oligodendrocyte differentiation. <i>Glia</i> , 2020, 68, 1274-1290.	4.9	21
51	Loss of Tuberous Sclerosis Complex1 in Adult Oligodendrocyte Progenitor Cells Enhances Axon Remyelination and Increases Myelin Thickness after a Focal Demyelination. <i>Journal of Neuroscience</i> , 2017, 37, 7534-7546.	3.6	20
52	A novel myelin protein zero transgenic zebrafish designed for rapid readout of in vivo myelination. <i>Glia</i> , 2019, 67, 650-667.	4.9	18
53	Cholesterol biosynthesis defines oligodendrocyte precursor heterogeneity between brain and spinal cord. <i>Cell Reports</i> , 2022, 38, 110423.	6.4	18
54	Oligodendrocyte Progenitor Cell Proliferation and Fate after White Matter Stroke in Juvenile and Adult Mice. <i>Developmental Neuroscience</i> , 2018, 40, 601-616.	2.0	17

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55	PAK1 Positively Regulates Oligodendrocyte Morphology and Myelination. <i>Journal of Neuroscience</i> , 2021, 41, 1864-1877.	3.6	17
56	Visual abnormalities associated with enhanced optic nerve myelination. <i>Brain Research</i> , 2011, 1374, 36-42.	2.2	16
57	Corneal nonmyelinating Schwann cells illuminated by single-cell transcriptomics and visualized by protein biomarkers. <i>Journal of Neuroscience Research</i> , 2021, 99, 731-749.	2.9	15
58	mTOR Signaling Regulates Metabolic Function in Oligodendrocyte Precursor Cells and Promotes Efficient Brain Remyelination in the Cuprizone Model. <i>Journal of Neuroscience</i> , 2021, 41, 8321-8337.	3.6	15
59	Reversing hypomyelination in BACE1 ^Δ mice with Akt ^Δ overexpression. <i>FASEB Journal</i> , 2013, 27, 1868-1873.	0.5	14
60	Intravital assessment of myelin molecular order with polarimetric multiphoton microscopy. <i>Scientific Reports</i> , 2016, 6, 31685.	3.3	13
61	Integrin-Linked Kinase (ILK) Deletion Disrupts Oligodendrocyte Development by Altering Cell Cycle. <i>Journal of Neuroscience</i> , 2017, 37, 397-412.	3.6	13
62	Variable sensitivity to complement-dependent cytotoxicity in murine models of neuromyelitis optica. <i>Journal of Neuroinflammation</i> , 2016, 13, 301.	7.2	12
63	Digitized image analysis reveals diffuse abnormalities in normal-appearing white matter during acute experimental autoimmune encephalomyelitis. , 1998, 54, 364-372.		10
64	Endogenous Neuronal Replacement in the Juvenile Brain Following Cerebral Ischemia. <i>Neuroscience</i> , 2018, 380, 1-13.	2.3	9
65	The Protein Tyrosine Phosphatase Shp2 Regulates Oligodendrocyte Differentiation and Early Myelination and Contributes to Timely Remyelination. <i>Journal of Neuroscience</i> , 2018, 38, 787-802.	3.6	9
66	Murine Esophagus Expresses Glial-Derived Central Nervous System Antigens. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3233.	4.1	8
67	Defective <i>fractalkine</i> (CX3CR1) signaling aggravates neuroinflammation and affects recovery from cuprizone-induced demyelination. <i>Journal of Neurochemistry</i> , 2022, 162, 430-443.	3.9	6
68	Ecotropic Murine Leukemia Virus Infection of Glial Progenitors Interferes with Oligodendrocyte Differentiation: Implications for Neurovirulence. <i>Journal of Virology</i> , 2016, 90, 3385-3399.	3.4	4
69	Excitable Axonal Domains Adapt to Sensory Deprivation in the Olfactory System. <i>Journal of Neuroscience</i> , 2022, 42, 1491-1509.	3.6	3
70	Formation and Maintenance of Myelin. , 2012, , 569-581.		2
71	p70S6 kinase regulates oligodendrocyte differentiation and is active in remyelinating lesions. <i>Brain Communications</i> , 2022, 4, fca025.	3.3	2
72	2507 A novel multi-photon microscopy method for neuronavigation in deep brain stimulation surgery. <i>Journal of Clinical and Translational Science</i> , 2018, 2, 2-3.	0.6	0

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73	Abstract TP112: Delayed Oligodendrocyte Maturation Corresponds to Myelin and Motor Recovery After Neonatal Stroke. <i>Stroke</i> , 2020, 51, .	2.0	0