Wrapped to Adapt: Experience-Dependent Myelination

Neuron

95, 743-756

DOI: 10.1016/j.neuron.2017.07.009

Citation Report

#	Article	IF	CITATIONS
1	On Myelinated Axon Plasticity and Neuronal Circuit Formation and Function. Journal of Neuroscience, 2017, 37, 10023-10034.	1.7	168
2	And Yet it is Modified-Holding a Candle to the Dark Matter of White Matter. Proteomics, 2017, 17, 1700299.	1.3	2
3	Two steps forward for myelin repair in multiple sclerosis. Lancet Neurology, The, 2018, 17, 297-298.	4.9	2
4	The Original Social Network: White Matter and Social Cognition. Trends in Cognitive Sciences, 2018, 22, 504-516.	4.0	83
5	Neuronal Activity-Dependent Control of Postnatal Neurogenesis and Gliogenesis. Annual Review of Neuroscience, 2018, 41, 139-161.	5.0	29
6	Evidence for Myelin Sheath Remodeling in the CNS Revealed by InÂVivo Imaging. Current Biology, 2018, 28, 549-559.e3.	1.8	90
7	Single-cell transcriptomics of the developing lateral geniculate nucleus reveals insights into circuit assembly and refinement. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1051-E1060.	3.3	66
8	Rewiring the connectome: Evidence and effects. Neuroscience and Biobehavioral Reviews, 2018, 88, 51-62.	2.9	65
9	Bad wrap: Myelin and myelin plasticity in health and disease. Developmental Neurobiology, 2018, 78, 123-135.	1.5	70
10	Dynamism of an Astrocyte In Vivo: Perspectives on Identity and Function. Annual Review of Physiology, 2018, 80, 143-157.	5.6	44
11	Myelination and mTOR. Glia, 2018, 66, 693-707.	2.5	123
13	Intersection of Brain Development and Paediatric Diffuse Midline Gliomas: Potential Role of Microenvironment in Tumour Growth. Brain Sciences, 2018, 8, 200.	1.1	13
14	Myelin Dynamics Throughout Life: An Ever-Changing Landscape?. Frontiers in Cellular Neuroscience, 2018, 12, 424.	1.8	121
15	The Impacts of Tumor and Tumor Associated Epilepsy on Subcortical Brain Structures and Long Distance Connectivity in Patients With Low Grade Glioma. Frontiers in Neurology, 2018, 9, 1004.	1.1	11
16	White Matter Plasticity Keeps the Brain in Tune: Axons Conduct While Glia Wrap. Frontiers in Cellular Neuroscience, 2018, 12, 428.	1.8	49
17	Distinct patterns of glia repair and remyelination in antibodyâ€mediated demyelination models of multiple sclerosis and neuromyelitis optica. Glia, 2018, 66, 2575-2588.	2.5	23
18	Multilevel factors affecting early socioemotional development in humans. Behavioral Ecology and Sociobiology, 2018, 72, 1.	0.6	13
19	InÂVivo Regulation of Oligodendrocyte Precursor Cell Proliferation and Differentiation by the AMPA-Receptor Subunit GluA2. Cell Reports, 2018, 25, 852-861.e7.	2.9	72

#	Article	IF	CITATIONS
20	Activity-Regulated Transcription: Bridging the Gap between Neural Activity and Behavior. Neuron, 2018, 100, 330-348.	3.8	408
21	The Rules of Attraction in Central Nervous System Myelination. Frontiers in Cellular Neuroscience, 2018, 12, 367.	1.8	32
22	An active role for neurons in glioma progression: making sense of Scherer's structures. Neuro-Oncology, 2018, 20, 1292-1299.	0.6	50
24	Oligodendrocyte precursor survival and differentiation requires chromatin remodeling by Chd7 and Chd8. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8246-E8255.	3.3	81
25	At the Origin of the History of Glia. Neuroscience, 2018, 385, 255-271.	1.1	19
26	Changes in white matter in mice resulting from low-frequency brain stimulation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6339-E6346.	3.3	35
27	Non-cell Autonomous OTX2 Homeoprotein Regulates Visual Cortex Plasticity Through Gadd45b/g. Cerebral Cortex, 2019, 29, 2384-2395.	1.6	41
28	Brain White Matter: A Substrate for Resilience and a Substance for Subcortical Small Vessel Disease. Brain Sciences, 2019, 9, 193.	1.1	12
29	Two adhesive systems cooperatively regulate axon ensheathment and myelin growth in the CNS. Nature Communications, 2019, 10, 4794.	5.8	45
30	Glia: A Gate Controlling Animal Behavior?. Current Biology, 2019, 29, R847-R850.	1.8	1
31	Neuroemergentism: At the intersection of ontogeny and phylogeny. Journal of Neurolinguistics, 2019, 49, 252-254.	0.5	2
32	Measurement of cognitive functions in experts and elite athletes: A metaâ€analytic review. Applied Cognitive Psychology, 2019, 33, 843-860.	0.9	111
33	Developing therapeutic strategies to promote myelin repair in multiple sclerosis. Expert Review of Neurotherapeutics, 2019, 19, 997-1013.	1.4	13
34	The role of sleep and wakefulness in myelin plasticity. Glia, 2019, 67, 2142-2152.	2.5	44
35	Structural adaption of axons during de―and remyelination in the Cuprizone mouse model. Brain Pathology, 2019, 29, 675-692.	2.1	11
36	Myelin in the Central Nervous System: Structure, Function, and Pathology. Physiological Reviews, 2019, 99, 1381-1431.	13.1	336
37	Function and Mechanism of Myelin Regulation in Alcohol Abuse and Alcoholism. BioEssays, 2019, 41, e1800255.	1.2	32
38	Powerful Homeostatic Control of Oligodendroglial Lineage by PDGFRα in Adult Brain. Cell Reports, 2019, 27, 1073-1089.e5.	2.9	46

#	Article	IF	CITATIONS
39	Lowâ€intensity transcranial magnetic stimulation promotes the survival and maturation of newborn oligodendrocytes in the adult mouse brain. Clia, 2019, 67, 1462-1477.	2.5	55
40	Developmental origins and emerging therapeutic opportunities for childhood cancer. Nature Medicine, 2019, 25, 367-376.	15.2	112
41	Grey matter myelination. Glia, 2019, 67, 2063-2070.	2.5	54
42	Manipulation of microbiota reveals altered callosal myelination and white matter plasticity in a model of Huntington disease. Neurobiology of Disease, 2019, 127, 65-75.	2.1	38
43	Diversity in the Oligodendrocyte Lineage: Current Evidence. Neuron, 2019, 101, 356-357.	3.8	2
44	Voluntary wheel running promotes myelination in the motor cortex through Wnt signaling in mice. Molecular Brain, 2019, 12, 85.	1.3	27
45	Making Sense of Developmental Dynamics. Human Development, 2019, 63, 255-263.	1.2	2
46	Identification of a Loss-of-Function Mutation in the Context of Glutaminase Deficiency and Neonatal Epileptic Encephalopathy. JAMA Neurology, 2019, 76, 342.	4.5	33
47	Cognitive functions associated with developing prefrontal cortex during adolescence and developmental neuropsychiatric disorders. Neurobiology of Disease, 2019, 131, 104322.	2.1	29
48	Ultrahigh field imaging of myelin disease models: Toward specific markers of myelin integrity?. Journal of Comparative Neurology, 2019, 527, 2179-2189.	0.9	13
49	Methotrexate Chemotherapy Induces Persistent Tri-glial Dysregulation that Underlies Chemotherapy-Related Cognitive Impairment. Cell, 2019, 176, 43-55.e13.	13.5	222
50	The relationship between socioeconomic status and white matter microstructure in preâ€reading children: A longitudinal investigation. Human Brain Mapping, 2019, 40, 741-754.	1.9	54
51	Potential Circadian Rhythms in Oligodendrocytes? Working Together Through Time. Neurochemical Research, 2020, 45, 591-605.	1.6	20
52	Early-life stress impairs postnatal oligodendrogenesis and adult emotional behaviour through activity-dependent mechanisms. Molecular Psychiatry, 2020, 25, 1159-1174.	4.1	104
53	Inborn errors of enzymes in glutamate metabolism. Journal of Inherited Metabolic Disease, 2020, 43, 200-215.	1.7	13
54	Development of structure–function coupling in human brain networks during youth. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 771-778.	3.3	296
55	Disruption of Oligodendrogenesis Impairs Memory Consolidation in Adult Mice. Neuron, 2020, 105, 150-164.e6.	3.8	263
57	The Neural Regulation of Cancer. Annual Review of Cancer Biology, 2020, 4, 371-390.	2.3	12

#	ARTICLE	IF	CITATIONS
58	Genetic Variation in CNS Myelination and Functional Brain Connectivity in Recombinant Inbred Mice. Cells, 2020, 9, 2119.	1.8	5
60	Myelin plasticity: sculpting circuits in learning and memory. Nature Reviews Neuroscience, 2020, 21, 682-694.	4.9	162
61	NCI-CONNECT: Comprehensive Oncology Network Evaluating Rare CNS Tumors—Histone Mutated Midline Glioma Workshop Proceedings*. Neuro-Oncology Advances, 2020, 2, vdaa007.	0.4	4
62	Demyelination associated with chronic arsenic exposure in Wistar rats. Toxicology and Applied Pharmacology, 2020, 393, 114955.	1.3	13
63	Reprint of: Manipulation of microbiota reveals altered callosal myelination and white matter plasticity in a model of Huntington disease. Neurobiology of Disease, 2020, 135, 104744.	2.1	7
64	Activity Shapes Neural Circuit Form and Function: A Historical Perspective. Journal of Neuroscience, 2020, 40, 944-954.	1.7	62
65	Prefrontal Cortex Development in Health and Disease: Lessons from Rodents and Humans. Trends in Neurosciences, 2021, 44, 227-240.	4.2	123
66	Myelin and oligodendrocyte lineage cell dysfunctions: New players in the etiology and treatment of depression and stressâ€related disorders. European Journal of Neuroscience, 2021, 53, 281-297.	1.2	47
67	Brain plasticity., 2021,, 77-98.		0
68	A Whole-Cortex Probabilistic Diffusion Tractography Connectome. ENeuro, 2021, 8, ENEURO.0416-20.2020.	0.9	43
69	Periaxonal and nodal plasticities modulate action potential conduction in the adult mouse brain. Cell Reports, 2021, 34, 108641.	2.9	54
70	nMNSD—A Spiking Neuron-Based Classifier That Combines Weight-Adjustment and Delay-Shift. Frontiers in Neuroscience, 2021, 15, 582608.	1.4	5
71	Completion of neuronal remodeling prompts myelination along developing motor axon branches. Journal of Cell Biology, 2021, 220, .	2.3	7
72	Influence of Rearing Environment on Longitudinal Brain Development, Object Recognition Memory, and Exploratory Behaviors in the Domestic Pig (Sus scrofa). Frontiers in Neuroscience, 2021, 15, 649536.	1.4	17
73	Modulation of Excitatory Synaptic Transmission During Cannabinoid Receptor Activation. Cellular and Molecular Neurobiology, 2021, , 1.	1.7	0
78	White matter aging drives microglial diversity. Neuron, 2021, 109, 1100-1117.e10.	3.8	208
79	Glial Cells Promote Myelin Formation and Elimination. Frontiers in Cell and Developmental Biology, 2021, 9, 661486.	1.8	20
80	Modeling myelin: A toolkit for exploring myelin's mysteries inÂvitro. Developmental Cell, 2021, 56, 1215-1217.	3.1	1

#	Article	IF	CITATIONS
81	A morphological analysis of activity-dependent myelination and myelin injury in transitional oligodendrocytes. Scientific Reports, 2021, 11, 9588.	1.6	5
82	On Beyond Constructivism. Science and Education, 0, , 1.	1.7	5
83	Neurobiological substrates underlying corpus callosum hypoconnectivity and brain metabolic patterns in the valproic acid rat model of autism spectrum disorder. Journal of Neurochemistry, 2021, 159, 128-144.	2.1	7
85	The multicellular interplay of microglia in health and disease: lessons from leukodystrophy. DMM Disease Models and Mechanisms, 2021, 14, .	1.2	9
87	Molecular Mechanism of Arsenic-Induced Neurotoxicity including Neuronal Dysfunctions. International Journal of Molecular Sciences, 2021, 22, 10077.	1.8	66
88	CNS Hypomyelination Disrupts Axonal Conduction and Behavior in Larval Zebrafish. Journal of Neuroscience, 2021, 41, 9099-9111.	1.7	10
89	Phosphoproteomic profiling of the hippocampus of offspring rats exposed to prenatal stress. Brain and Behavior, 2021, 11, e2233.	1.0	3
90	Microglia-neuron interaction at nodes of Ranvier depends on neuronal activity through potassium release and contributes to remyelination. Nature Communications, 2021, 12, 5219.	5.8	49
91	Effect of modulating glutamate signaling on myelinating oligodendrocytes and their developmentâ€"A study in the zebrafish model. Journal of Neuroscience Research, 2021, 99, 2774-2792.	1.3	4
92	Wrapping Things Up: Recent Developments in Understanding the Role of the Microbiome in Regulating Myelination. Current Opinion in Physiology, 2021, 23, 100468.	0.9	7
93	Wiring of higher-order cortical areas: Spatiotemporal development of cortical hierarchy. Seminars in Cell and Developmental Biology, 2021, 118, 35-49.	2.3	14
102	Neuron class–specific responses govern adaptive myelin remodeling in the neocortex. Science, 2020, 370, .	6.0	79
103	Activityâ€dependent alteration of early myelin ensheathment in a developing sensory circuit. Journal of Comparative Neurology, 2022, 530, 871-885.	0.9	2
104	George Gershwin (1898–1937) – genius composer, malignant brain tumor patient. Malignant glioma: an irritating/stimulating element in triggering geniality?. Romanian Journal of Morphology and Embryology, 2021, 62, 331-335.	0.4	0
108	Remyélinisation du système nerveux central et sclérose en plaques. , 2019, , 211-222.		0
112	Understanding Brain Plasticity in Learning Process. International Journal on Research in STEM Education, 2020, 2, 42-58.	0.3	0
113	Cell-to-Cell Interactions Mediating Functional Recovery after Stroke. Cells, 2021, 10, 3050.	1.8	9
116	Unfavorable clinical outcomes in patients with carbamoyl phosphate synthetase 1 deficiency. Clinica Chimica Acta, 2022, 526, 55-61.	0.5	4

#	Article	IF	CITATIONS
117	Neuron to Oligodendrocyte Precursor Cell Synapses: Protagonists in Oligodendrocyte Development and Myelination, and Targets for Therapeutics. Frontiers in Neuroscience, 2021, 15, 779125.	1.4	19
118	Daam2 Regulates Myelin Structure and the Oligodendrocyte Actin Cytoskeleton through Rac1 and Gelsolin. Journal of Neuroscience, 2022, 42, 1679-1691.	1.7	7
121	Normal development of the brain: a survey of joint structural–functional brain studies. Reviews in the Neurosciences, 2022, 33, 745-765.	1.4	0
122	Brain-Derived Neurotrophic Factor-Mediated Cognitive Impairment in Hypothyroidism. Cureus, 2022, 14, e23722.	0.2	2
127	Mirror movements after bimanual intensive therapy in children with unilateral cerebral palsy: A randomized controlled trial. Developmental Medicine and Child Neurology, 2022, , .	1.1	0
128	Genetic and phylogenetic uncoupling of structure and function in human transmodal cortex. Nature Communications, 2022, 13, 2341.	5.8	54
129	Current Insights Into Oligodendrocyte Metabolism and Its Power to Sculpt the Myelin Landscape. Frontiers in Cellular Neuroscience, 2022, 16, 892968.	1.8	16
130	Motor Learning and Physical Exercise in Adaptive Myelination and Remyelination. ASN Neuro, 2022, 14, 175909142210975.	1.5	7
131	Reciprocal Interactions between Oligodendrocyte Precursor Cells and the Neurovascular Unit in Health and Disease. Cells, 2022, 11, 1954.	1.8	5
132	Graded Variation in T1w/T2w Ratio during Adolescence: Measurement, Caveats, and Implications for Development of Cortical Myelin. Journal of Neuroscience, 2022, 42, $5681-5694$ .	1.7	28
134	Brain organoids: the quest to decipher human-specific features of brain development. Current Opinion in Genetics and Development, 2022, 75, 101955.	1.5	10
136	Experience-driven plasticity and the emergence of psychopathology: A mechanistic framework integrating development and the environment into the Research Domain Criteria (RDoC) model, 2022, 131, 575-587.		16
137	Homeostatic coordination and up-regulation of neural activity by activity-dependent myelination. Nature Computational Science, 2022, 2, 665-676.	3.8	7
138	Sex differences in myelination of the zebra finch vocal control system emerge relatively late in development. Developmental Neurobiology, 0, , .	1.5	0
139	Transient regulation of focal adhesion via Tensin3 is required for nascent oligodendrocyte differentiation. ELife, 0, $11$ , .	2.8	5
140	Prefrontal influences on the function of the neural circuitry underlying anxious temperament in primates. , 2023, 2, .		3
141	Genetics of Cortical Development. , 2022, , .		0
142	Identification of Tau protein as a novel marker for maturation and pathological changes of oligodendrocytes. Glia, 2023, 71, 1002-1017.	2.5	8

#	Article	IF	CITATIONS
144	Early growth response 2 in the mPFC regulates mouse social and cooperative behaviors. Lab Animal, 2023, 52, 37-50.	0.2	1
145	Neuro-nanotechnology: diagnostic and therapeutic nano-based strategies in applied neuroscience. BioMedical Engineering OnLine, 2023, 22, .	1.3	10
146	The effects of puberty and sex on adolescent white matter development: A systematic review. Developmental Cognitive Neuroscience, 2023, 60, 101214.	1.9	2
149	Node of Ranvier remodeling in chronic psychosocial stress and anxiety. Neuropsychopharmacology, 2023, 48, 1532-1540.	2.8	2
150	Enhancing axonal myelination in seniors: A review exploring the potential impact cannabis has on myelination in the aged brain. Frontiers in Aging Neuroscience, 0, $15$ , .	1.7	3
160	Myelination-independent functions of oligodendrocyte precursor cells in health and disease. Nature Neuroscience, 2023, 26, 1663-1669.	7.1	5
161	Experience-Dependent Axonal Plasticity in Large-Scale Spiking Neural Network Simulations. , 2023, , .		1