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List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

25,279
citations

10389

72
h-index

30087

103
g-index

113
all docs

113
docs citations

113
times ranked

19351
citing authors

#	ARTICLE	IF	CITATIONS
1	A short amino acid sequence able to specify nuclear location. <i>Cell</i> , 1984, 39, 499-509.	28.9	2,520
2	Sequence requirements for nuclear location of simian virus 40 large-T antigen. <i>Nature</i> , 1984, 311, 33-38.	27.8	1,331
3	Cell death and control of cell survival in the oligodendrocyte lineage. <i>Cell</i> , 1992, 70, 31-46.	28.9	1,267
4	Competing waves of oligodendrocytes in the forebrain and postnatal elimination of an embryonic lineage. <i>Nature Neuroscience</i> , 2006, 9, 173-179.	14.8	978
5	Motor skill learning requires active central myelination. <i>Science</i> , 2014, 346, 318-322.	12.6	936
6	Oligodendrocyte heterogeneity in the mouse juvenile and adult central nervous system. <i>Science</i> , 2016, 352, 1326-1329.	12.6	817
7	PDGFRA/NG2 glia generate myelinating oligodendrocytes and piriform projection neurons in adult mice. <i>Nature Neuroscience</i> , 2008, 11, 1392-1401.	14.8	798
8	A role for platelet-derived growth factor in normal gliogenesis in the central nervous system. <i>Cell</i> , 1988, 53, 309-319.	28.9	739
9	Platelet-derived growth factor from astrocytes drives the clock that times oligodendrocyte development in culture. <i>Nature</i> , 1988, 333, 562-565.	27.8	723
10	Oligodendrocyte Dynamics in the Healthy Adult CNS: Evidence for Myelin Remodeling. <i>Neuron</i> , 2013, 77, 873-885.	8.1	721
11	Astrocytes and disease: a neurodevelopmental perspective. <i>Genes and Development</i> , 2012, 26, 891-907.	5.9	578
12	Nuclear protein migration involves two steps: Rapid binding at the nuclear envelope followed by slower translocation through nuclear pores. <i>Cell</i> , 1988, 52, 655-664.	28.9	572
13	CNS-Resident Glial Progenitor/Stem Cells Produce Schwann Cells as well as Oligodendrocytes during Repair of CNS Demyelination. <i>Cell Stem Cell</i> , 2010, 6, 578-590.	11.1	549
14	Neural crest origins of the neck and shoulder. <i>Nature</i> , 2005, 436, 347-355.	27.8	466
15	Regional Astrocyte Allocation Regulates CNS Synaptogenesis and Repair. <i>Science</i> , 2012, 337, 358-362.	12.6	448
16	Oligodendrocyte Population Dynamics and the Role of PDGF In Vivo. <i>Neuron</i> , 1998, 20, 869-882.	8.1	441
17	Nuclear location signals in polyoma virus large-T. <i>Cell</i> , 1986, 44, 77-85.	28.9	407
18	Oligodendrocyte Development and Plasticity. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a020453.	5.5	402

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19	Rapid production of new oligodendrocytes is required in the earliest stages of motor-skill learning. <i>Nature Neuroscience</i> , 2016, 19, 1210-1217.	14.8	377
20	Oligodendrocyte wars. <i>Nature Reviews Neuroscience</i> , 2006, 7, 11-18.	10.2	350
21	Glial cells in the mouse enteric nervous system can undergo neurogenesis in response to injury. <i>Journal of Clinical Investigation</i> , 2011, 121, 3412-3424.	8.2	321
22	Subventricular Zone Stem Cells Are Heterogeneous with Respect to Their Embryonic Origins and Neurogenic Fates in the Adult Olfactory Bulb. <i>Journal of Neuroscience</i> , 2007, 27, 8286-8296.	3.6	303
23	Hedgehog-dependent oligodendrocyte lineage specification in the telencephalon. <i>Development (Cambridge)</i> , 2001, 128, 2545-2554.	2.5	289
24	Regulation of Oligodendrocyte Development and Myelination by Glucose and Lactate. <i>Journal of Neuroscience</i> , 2011, 31, 538-548.	3.6	284
25	The nucleoplasmin nuclear location sequence is larger and more complex than that of SV-40 large T antigen.. <i>Journal of Cell Biology</i> , 1988, 107, 841-849.	5.2	277
26	Platelet-derived growth factor regulates oligodendrocyte progenitor numbers in adult CNS and their response following CNS demyelination. <i>Molecular and Cellular Neurosciences</i> , 2004, 25, 252-262.	2.2	276
27	NG2-glia as Multipotent Neural Stem Cells: Fact or Fantasy?. <i>Neuron</i> , 2011, 70, 661-673.	8.1	268
28	Determination of Neuroepithelial Cell Fate: Induction of the Oligodendrocyte Lineage by Ventral Midline Cells and Sonic Hedgehog. <i>Developmental Biology</i> , 1996, 177, 30-42.	2.0	261
29	The generation of adipocytes by the neural crest. <i>Development (Cambridge)</i> , 2007, 134, 2283-2292.	2.5	245
30	A subset of oligodendrocytes generated from radial glia in the dorsal spinal cord. <i>Development (Cambridge)</i> , 2005, 132, 1951-1959.	2.5	238
31	Embryonic expression of myelin genes: Evidence for a focal source of oligodendrocyte precursors in the ventricular zone of the neural tube. <i>Neuron</i> , 1994, 12, 1353-1362.	8.1	231
32	NG2 Glia Generate New Oligodendrocytes But Few Astrocytes in a Murine Experimental Autoimmune Encephalomyelitis Model of Demyelinating Disease. <i>Journal of Neuroscience</i> , 2010, 30, 16383-16390.	3.6	230
33	SoxD Proteins Influence Multiple Stages of Oligodendrocyte Development and Modulate SoxE Protein Function. <i>Developmental Cell</i> , 2006, 11, 697-709.	7.0	229
34	The effect of protein context on nuclear location signal function. <i>Cell</i> , 1987, 50, 465-475.	28.9	227
35	PDGF Mediates a Neuron-Astrocyte Interaction in the Developing Retina. <i>Neuron</i> , 1996, 17, 1117-1131.	8.1	221
36	Cell cycle dynamics of NG2 cells in the postnatal and ageing brain. <i>Neuron Glia Biology</i> , 2009, 5, 57-67.	1.6	213

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37	Oligodendrocyte dysfunction in the pathogenesis of amyotrophic lateral sclerosis. <i>Brain</i> , 2013, 136, 471-482.	7.6	205
38	Dual origin of spinal oligodendrocyte progenitors and evidence for the cooperative role of <i>Olig2</i> and <i>Nkx2.2</i> in the control of oligodendrocyte differentiation. <i>Development (Cambridge)</i> , 2002, 129, 681-693.	2.5	184
39	Properties and Fate of Oligodendrocyte Progenitor Cells in the Corpus Callosum, Motor Cortex, and Piriform Cortex of the Mouse. <i>Journal of Neuroscience</i> , 2012, 32, 8173-8185.	3.6	166
40	Oligodendrocyte lineage and the motor neuron connection. <i>Glia</i> , 2000, 29, 136-142.	4.9	163
41	Early Forebrain Wiring: Genetic Dissection Using Conditional <i>Celsr3</i> Mutant Mice. <i>Science</i> , 2008, 320, 946-949.	12.6	161
42	An "oligarchy" rules neural development. <i>Trends in Neurosciences</i> , 2002, 25, 417-422.	8.6	160
43	Cell death in the oligodendrocyte lineage. <i>Journal of Neurobiology</i> , 1992, 23, 1221-1230.	3.6	156
44	<i>Olig1</i> and <i>Sox10</i> Interact Synergistically to Drive <i>Myelin Basic Protein</i> Transcription in Oligodendrocytes. <i>Journal of Neuroscience</i> , 2007, 27, 14375-14382.	3.6	156
45	A cascade of adenovirus early functions is required for expression of adeno-associated virus. <i>Cell</i> , 1981, 27, 133-141.	28.9	152
46	Dorsally and Ventrally Derived Oligodendrocytes Have Similar Electrical Properties but Myelinate Preferred Tracts. <i>Journal of Neuroscience</i> , 2011, 31, 6809-6819.	3.6	151
47	<i>Fgfr3</i> expression by astrocytes and their precursors: evidence that astrocytes and oligodendrocytes originate in distinct neuroepithelial domains. <i>Development (Cambridge)</i> , 2003, 130, 93-102.	2.5	148
48	Stabilization of the retinal vascular network by reciprocal feedback between blood vessels and astrocytes. <i>Development (Cambridge)</i> , 2005, 132, 1855-1862.	2.5	142
49	PDGF and intracellular signaling in the timing of oligodendrocyte differentiation.. <i>Journal of Cell Biology</i> , 1989, 109, 3411-3417.	5.2	133
50	Hypomyelinating leukodystrophies: Translational research progress and prospects. <i>Annals of Neurology</i> , 2014, 76, 5-19.	5.3	132
51	Temporal control of neural crest lineage generation by Wnt/ β -catenin signaling. <i>Development (Cambridge)</i> , 2012, 139, 2107-2117.	2.5	128
52	Origins of Spinal Cord Oligodendrocytes: Possible Developmental and Evolutionary Relationships with Motor Neurons. <i>Developmental Neuroscience</i> , 1997, 19, 58-68.	2.0	127
53	Control of progenitor cell number by mitogen supply and demand. <i>Current Biology</i> , 2001, 11, 232-241.	3.9	121
54	A regulatory network involving <i>Foxn4</i> , <i>Mash1</i> and <i>delta-like 4/Notch1</i> generates V2a and V2b spinal interneurons from a common progenitor pool. <i>Development (Cambridge)</i> , 2007, 134, 3427-3436.	2.5	121

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55	Cooperation between sonic hedgehog and fibroblast growth factor/MAPK signalling pathways in neocortical precursors. <i>Development (Cambridge)</i> , 2004, 131, 1289-1298.	2.5	120
56	Remarkable Stability of Myelinating Oligodendrocytes in Mice. <i>Cell Reports</i> , 2017, 21, 316-323.	6.4	120
57	Neural Crest Origin of Perivascular Mesenchyme in the Adult Thymus. <i>Journal of Immunology</i> , 2008, 180, 5344-5351.	0.8	118
58	Phosphorylation Regulates OLIG2 Cofactor Choice and the Motor Neuron-Oligodendrocyte Fate Switch. <i>Neuron</i> , 2011, 69, 918-929.	8.1	115
59	Developmental Origin of Oligodendrocyte Lineage Cells Determines Response to Demyelination and Susceptibility to Age-Associated Functional Decline. <i>Cell Reports</i> , 2016, 15, 761-773.	6.4	112
60	Signalling through AMPA receptors on oligodendrocyte precursors promotes myelination by enhancing oligodendrocyte survival. <i>ELife</i> , 2017, 6, .	6.0	111
61	Specification of CNS glia from neural stem cells in the embryonic neuroepithelium. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 71-85.	4.0	110
62	A novel Brn3-like POU transcription factor expressed in subsets of rat sensory and spinal cord neurons. <i>Nucleic Acids Research</i> , 1993, 21, 3175-3182.	14.5	108
63	Dorsal Spinal Cord Neuroepithelium Generates Astrocytes but Not Oligodendrocytes. <i>Neuron</i> , 1998, 20, 883-893.	8.1	105
64	Oligodendrocyte development in the spinal cord and telencephalon: common themes and new perspectives. <i>International Journal of Developmental Neuroscience</i> , 2001, 19, 379-385.	1.6	104
65	Ventral Neurogenesis and the Neuron-Glial Switch. <i>Neuron</i> , 2001, 31, 677-680.	8.1	100
66	Roles for p53 and p73 during oligodendrocyte development. <i>Development (Cambridge)</i> , 2004, 131, 1211-1220.	2.5	99
67	Pax6 Influences the Time and Site of Origin of Glial Precursors in the Ventral Neural Tube. <i>Molecular and Cellular Neurosciences</i> , 1998, 12, 228-239.	2.2	95
68	Two-tier transcriptional control of oligodendrocyte differentiation. <i>Current Opinion in Neurobiology</i> , 2009, 19, 479-485.	4.2	83
69	Endogenous GABA controls oligodendrocyte lineage cell number, myelination, and CNS internode length. <i>Glia</i> , 2017, 65, 309-321.	4.9	83
70	An <i>Fgfr3^{CreER}T2</i> transgenic mouse line for studies of neural stem cells and astrocytes. <i>Glia</i> , 2010, 58, 943-953.	4.9	82
71	Transcription Factor Positive Regulatory Domain 4 (PRDM4) Recruits Protein Arginine Methyltransferase 5 (PRMT5) to Mediate Histone Arginine Methylation and Control Neural Stem Cell Proliferation and Differentiation. <i>Journal of Biological Chemistry</i> , 2012, 287, 42995-43006.	3.4	82
72	Dual origin of spinal oligodendrocyte progenitors and evidence for the cooperative role of Olig2 and Nkx2.2 in the control of oligodendrocyte differentiation. <i>Development (Cambridge)</i> , 2002, 129, 681-93.	2.5	80

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73	A Dynamic Switch in the Replication Timing of Key Regulator Genes in Embryonic Stem Cells upon Neural Induction. <i>Cell Cycle</i> , 2004, 3, 1619-1624.	2.6	77
74	Schwann Cells Secrete a PDGF-like Factor: Evidence for an Autocrine Growth Mechanism involving PDGF. <i>European Journal of Neuroscience</i> , 1990, 2, 985-992.	2.6	75
75	Pre-Existing Mature Oligodendrocytes Do Not Contribute to Remyelination following Toxin-Induced Spinal Cord Demyelination. <i>American Journal of Pathology</i> , 2016, 186, 511-516.	3.8	74
76	Platelet-derived growth factor is constitutively secreted from neuronal cell bodies but not from axons. <i>Current Biology</i> , 2000, 10, 1283-1286.	3.9	72
77	Sox1 Is Required for the Specification of a Novel p2-Derived Interneuron Subtype in the Mouse Ventral Spinal Cord. <i>Journal of Neuroscience</i> , 2010, 30, 12274-12280.	3.6	70
78	Characterization of the platelet-derived growth factor receptor- β -positive cell lineage during murine late lung development. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L942-L958.	2.9	68
79	The regulation of the homeostasis and regeneration of peripheral nerve is distinct from the CNS and independent of a stem cell population. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	62
80	The Marginal Zone/Layer I as a Novel Niche for Neurogenesis and Gliogenesis in Developing Cerebral Cortex. <i>Journal of Neuroscience</i> , 2007, 27, 11376-11388.	3.6	55
81	Requirement for either early region 1a or early region 1b adenovirus gene products in the helper effect for adeno-associated virus. <i>Journal of Virology</i> , 1984, 51, 404-410.	3.4	54
82	A screen for mutations in zebrafish that affect myelin gene expression in Schwann cells and oligodendrocytes. <i>Developmental Biology</i> , 2006, 297, 1-13.	2.0	51
83	Growth factors and transcription factors in oligodendrocyte development. <i>Journal of Cell Science</i> , 1991, 1991, 117-123.	2.0	45
84	The Alternative-Splice Isoforms of the PDGF A-Chain Differ in their Ability to Associate with the Extracellular Matrix and to Bind Heparin In Vitro. <i>Growth Factors</i> , 1992, 7, 267-277.	1.7	43
85	Evolution of the CNS myelin gene regulatory program. <i>Brain Research</i> , 2016, 1641, 111-121.	2.2	41
86	G protein-coupled receptor 37-like 1 modulates astrocyte glutamate transporters and neuronal NMDA receptors and is neuroprotective in ischemia. <i>Glia</i> , 2018, 66, 47-61.	4.9	41
87	Targeting miR-34a/Pdgfra interactions partially corrects alveologenesi in experimental bronchopulmonary dysplasia. <i>EMBO Molecular Medicine</i> , 2019, 11, .	6.9	38
88	Life-long oligodendrocyte development and plasticity. <i>Seminars in Cell and Developmental Biology</i> , 2021, 116, 25-37.	5.0	35
89	Nutritional regulation of oligodendrocyte differentiation regulates perineuronal net remodeling in the median eminence. <i>Cell Reports</i> , 2021, 36, 109362.	6.4	33
90	Cdc42-dependent structural development of auditory supporting cells is required for wound healing at adulthood. <i>Scientific Reports</i> , 2012, 2, 978.	3.3	32

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91	Expression of Tbx2 and Tbx3 in the developing hypothalamic-pituitary axis. <i>Gene Expression Patterns</i> , 2008, 8, 411-417.	0.8	31
92	The evolution of Olig genes and their roles in myelination. <i>Neuron Glia Biology</i> , 2008, 4, 129-135.	1.6	31
93	Sustained Axon-Glial Signaling Induces Schwann Cell Hyperproliferation, Remak Bundle Myelination, and Tumorigenesis. <i>Journal of Neuroscience</i> , 2009, 29, 11304-11315.	3.6	30
94	Genetics meets epigenetics: HDACs and Wnt signaling in myelin development and regeneration. <i>Nature Neuroscience</i> , 2009, 12, 815-817.	14.8	30
95	New Olig1null mice confirm a non-essential role for Olig1 in oligodendrocyte development. <i>BMC Neuroscience</i> , 2014, 15, 12.	1.9	23
96	SOX1 links the function of neural patterning and Notch signalling in the ventral spinal cord during the neuron-glia fate switch. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 1114-1120.	2.1	19
97	Dbx1-Expressing Cells Are Necessary for the Survival of the Mammalian Anterior Neural and Craniofacial Structures. <i>PLoS ONE</i> , 2011, 6, e19367.	2.5	19
98	Onset of Spinal Cord Astrocyte Precursor Emigration from the Ventricular Zone Involves the Zeb1 Transcription Factor. <i>Cell Reports</i> , 2016, 17, 1473-1481.	6.4	14
99	Pax6 is expressed in subsets of V0 and V2 interneurons in the ventral spinal cord in mice. <i>Gene Expression Patterns</i> , 2013, 13, 328-334.	0.8	12
100	Receptor tyrosine phosphatase zeta/beta in astrocyte progenitors in the developing chick spinal cord. <i>Gene Expression Patterns</i> , 2004, 4, 161-166.	0.8	10
101	Combining Double Fluorescence & In Situ Hybridization with Immunolabelling for Detection of the Expression of Three Genes in Mouse Brain Sections. <i>Journal of Visualized Experiments</i> , 2016, , e53976.	0.3	10
102	Normal temporal and spatial distribution of oligodendrocyte progenitors in the myelin-deficient (md) rat. <i>Development</i> , 1997, 124, 264-270.		9
103	G protein-coupled receptor GPR37-like 1 regulates adult oligodendrocyte generation. <i>Developmental Neurobiology</i> , 2021, 81, 975-984.	3.0	5
104	Growth Factors for Myelinating Glial Cells in the Central and Peripheral Nervous Systems. <i>Development</i> , 1993, 119, 489-508.		2
105	Those enigmatic NG2 cells. <i>Neuron Glia Biology</i> , 2009, 5, 1-1.	1.6	1