David H Rowitch

List of Publications by Year
in descending order

215 papers	44,753 citations	1980 101 h-index	2171 202 g-index
227 all docs	227 docs citations	227 times ranked	47881 citing authors

#	Article	IF	Citations
1	Neurotoxic reactive astrocytes are induced by activated microglia. Nature, 2017, 541, 481-487.	13.7	4,977
2	Conserved role of intragenic DNA methylation in regulating alternative promoters. Nature, 2010, 466, 253-257.	13.7	1,568
3	Single-cell reconstruction of the early maternalâ€"fetal interface in humans. Nature, 2018, 563, 347-353.	13.7	1,547
4	Modification of gene activity in mouse embryos in utero by a tamoxifen-inducible form of Cre recombinase. Current Biology, 1998, 8, 1323-S2.	1.8	1,211
5	Reactive astrocyte nomenclature, definitions, and future directions. Nature Neuroscience, 2021, 24, 312-325.	7.1	1,098
6	Malignant glioma: genetics and biology of a grave matter. Genes and Development, 2001, 15, 1311-1333.	2.7	1,064
7	Common Developmental Requirement for Olig Function Indicates a Motor Neuron/Oligodendrocyte Connection. Cell, 2002, 109, 75-86.	13.5	957
8	Origin of Oligodendrocytes in the Subventricular Zone of the Adult Brain. Journal of Neuroscience, 2006, 26, 7907-7918.	1.7	872
9	Sonic Hedgehogâ€"Regulated Oligodendrocyte Lineage Genes Encoding bHLH Proteins in the Mammalian Central Nervous System. Neuron, 2000, 25, 317-329.	3.8	779
10	Corridors of migrating neurons in the human brain and their decline during infancy. Nature, 2011, 478, 382-386.	13.7	741
11	Epidermal growth factor receptor and Ink4a/Arf. Cancer Cell, 2002, 1, 269-277.	7.7	618
12	Medulloblastoma Can Be Initiated by Deletion of Patched in Lineage-Restricted Progenitors or Stem Cells. Cancer Cell, 2008, 14, 135-145.	7.7	606
13	Single-cell genomics identifies cell typeâ€"specific molecular changes in autism. Science, 2019, 364, 685-689.	6.0	600
14	Inactivation of the beta-catenin gene by Wnt1-Cre-mediated deletion results in dramatic brain malformation and failure of craniofacial development. Development (Cambridge), 2001, 128, 1253-64.	1.2	583
15	Fate of the mammalian cranial neural crest during tooth and mandibular morphogenesis. Development (Cambridge), 2000, 127, 1671-9.	1.2	580
16	Astrocytes and disease: a neurodevelopmental perspective. Genes and Development, 2012, 26, 891-907.	2.7	578
17	Acquisition of Granule Neuron Precursor Identity Is a Critical Determinant of Progenitor Cell Competence to Form Shh-Induced Medulloblastoma. Cancer Cell, 2008, 14, 123-134.	7.7	572
18	Developmental genetics of vertebrate glialâ€"cell specification. Nature, 2010, 468, 214-222.	13.7	561

#	Article	IF	Citations
19	CNS-Resident Glial Progenitor/Stem Cells Produce Schwann Cells as well as Oligodendrocytes during Repair of CNS Demyelination. Cell Stem Cell, 2010, 6, 578-590.	5.2	549
20	Challenges to curing primary brain tumours. Nature Reviews Clinical Oncology, 2019, 16, 509-520.	12.5	540
21	Dysregulation of the Wnt pathway inhibits timely myelination and remyelination in the mammalian CNS. Genes and Development, 2009, 23, 1571-1585.	2.7	537
22	Fate of the mammalian cardiac neural crest. Development (Cambridge), 2000, 127, 1607-16.	1.2	481
23	Sonic hedgehog Promotes G 1 Cyclin Expression and Sustained Cell Cycle Progression in Mammalian Neuronal Precursors. Molecular and Cellular Biology, 2000, 20, 9055-9067.	1.1	474
24	Regional Astrocyte Allocation Regulates CNS Synaptogenesis and Repair. Science, 2012, 337, 358-362.	6.0	448
25	Functional diversity of astrocytes in neural circuit regulation. Nature Reviews Neuroscience, 2017, 18, 31-41.	4.9	448
26	Olig2-Regulated Lineage-Restricted Pathway Controls Replication Competence in Neural Stem Cells and Malignant Glioma. Neuron, 2007, 53, 503-517.	3.8	438
27	Nmycupregulation by sonic hedgehog signaling promotes proliferation in developing cerebellar granule neuron precursors. Development (Cambridge), 2003, 130, 15-28.	1.2	427
28	Myelin Gene Regulatory Factor Is a Critical Transcriptional Regulator Required for CNS Myelination. Cell, 2009, 138, 172-185.	13.5	427
29	Mouse Brain Organization Revealed Through Direct Genome-Scale TF Expression Analysis. Science, 2004, 306, 2255-2257.	6.0	390
30	Neuronal vulnerability and multilineage diversity in multiple sclerosis. Nature, 2019, 573, 75-82.	13.7	385
31	The Oligodendroglial Lineage Marker OLIG2 Is Universally Expressed in Diffuse Gliomas. Journal of Neuropathology and Experimental Neurology, 2004, 63, 499-509.	0.9	384
32	Sox9 is required for determination of the chondrogenic cell lineage in the cranial neural crest. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9360-9365.	3.3	383
33	bHLH Transcription Factor Olig1 Is Required to Repair Demyelinated Lesions in the CNS. Science, 2004, 306, 2111-2115.	6.0	379
34	Glial specification in the vertebrate neural tube. Nature Reviews Neuroscience, 2004, 5, 409-419.	4.9	376
35	Smaller inner ear sensory epithelia in Neurog1 null mice are related to earlier hair cell cycle exit. Developmental Dynamics, 2005, 234, 633-650.	0.8	373
36	A Dramatic Increase of C1q Protein in the CNS during Normal Aging. Journal of Neuroscience, 2013, 33, 13460-13474.	1.7	361

#	Article	IF	Citations
37	<i>Sonic hedgehog</i>Regulates Proliferation and Inhibits Differentiation of CNS Precursor Cells. Journal of Neuroscience, 1999, 19, 8954-8965.	1.7	357
38	Expression pattern of the transcription factor Olig2 in response to brain injuries: Implications for neuronal repair. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18183-18188.	3.3	350
39	Dlx1 and Dlx2 Control Neuronal versus Oligodendroglial Cell Fate Acquisition in the Developing Forebrain. Neuron, 2007, 55, 417-433.	3.8	330
40	Oligodendrocyte-Encoded HIF Function Couples Postnatal Myelination and White Matter Angiogenesis. Cell, 2014, 158, 383-396.	13.5	314
41	Niche stiffness underlies the ageing of central nervous system progenitor cells. Nature, 2019, 573, 130-134.	13.7	311
42	Axin2 as regulatory and therapeutic target in newborn brain injury and remyelination. Nature Neuroscience, 2011, 14, 1009-1016.	7.1	307
43	Extensive migration of young neurons into the infant human frontal lobe. Science, 2016, 354, .	6.0	293
44	Glioma Stem Cells: A Midterm Exam. Neuron, 2008, 58, 832-846.	3.8	291
45	Astrocyte layers in the mammalian cerebral cortex revealed by a single-cell in situ transcriptomic map. Nature Neuroscience, 2020, 23, 500-509.	7.1	290
46	Hedgehog-dependent oligodendrocyte lineage specification in the telencephalon. Development (Cambridge), 2001, 128, 2545-2554.	1.2	289
47	Myelin Regeneration: A Recapitulation of Development?. Annual Review of Neuroscience, 2011, 34, 21-43.	5.0	282
48	Astrocyte Development and Heterogeneity. Cold Spring Harbor Perspectives in Biology, 2015, 7, a020362.	2.3	275
49	Small-molecule inhibitors reveal multiple strategies for Hedgehog pathway blockade. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14132-14137.	3.3	274
50	Astrocyte-encoded positional cues maintain sensorimotor circuit integrity. Nature, 2014, 509, 189-194.	13.7	266
51	Hedgehog-responsive candidate cell of origin for diffuse intrinsic pontine glioma. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4453-4458.	3.3	262
52	A Novel Somatic Mouse Model to Survey Tumorigenic Potential Applied to the Hedgehog Pathway. Cancer Research, 2006, 66, 10171-10178.	0.4	257
53	Neural Stem Cell Engraftment and Myelination in the Human Brain. Science Translational Medicine, 2012, 4, 155ra137.	5.8	238
54	Essential role of Sox9 in the pathway that controls formation of cardiac valves and septa. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6502-6507.	3.3	237

#	Article	IF	Citations
55	Oncogenic <i>BRAF</i> Mutation with <i>CDKN2A</i> Inactivation Is Characteristic of a Subset of Pediatric Malignant Astrocytomas. Cancer Research, 2010, 70, 512-519.	0.4	236
56	Development of mice expressing a single D-type cyclin. Genes and Development, 2002, 16, 3277-3289.	2.7	233
57	RESEARCH ARTICLE: Myelin Abnormalities without Oligodendrocyte Loss in Periventricular Leukomalacia. Brain Pathology, 2008, 18, 153-163.	2.1	221
58	Olig gene function in CNS development and disease. Glia, 2006, 54, 1-10.	2.5	197
59	Neurite outgrowth inhibitor Nogo-A establishes spatial segregation and extent of oligodendrocyte myelination. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1299-1304.	3.3	196
60	Hedgehog and PI-3 kinase signaling converge on Nmyc1 to promote cell cycle progression in cerebellar neuronal precursors. Development (Cambridge), 2004, 131, 217-228.	1.2	193
61	Molecular diversity of astrocytes with implications for neurological disorders. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8384-8389.	3.3	193
62	Origin and dynamics of oligodendrocytes in the developing brain: Implications for perinatal white matter injury. Glia, 2018, 66, 221-238.	2.5	188
63	Inhibition of Phosphatidylinositol 3-Kinase Destabilizes Mycn Protein and Blocks Malignant Progression in Neuroblastoma. Cancer Research, 2006, 66, 8139-8146.	0.4	186
64	The metabolic defect of methionine dependence occurs frequently in human tumor cell lines. Biochemical and Biophysical Research Communications, 1983, 117, 429-434.	1.0	184
65	NIH Consensus Development Conference Statement: Inhaled Nitric-Oxide Therapy for Premature Infants. Pediatrics, 2011, 127, 363-369.	1.0	183
66	Whole genome sequencing reveals that genetic conditions are frequent in intensively ill children. Intensive Care Medicine, 2019, 45, 627-636.	3.9	183
67	A Glial Signature and Wnt7 Signaling Regulate Glioma-Vascular Interactions and Tumor Microenvironment. Cancer Cell, 2018, 33, 874-889.e7.	7.7	180
68	The Proneural Gene Mash1 Specifies an Early Population of Telencephalic Oligodendrocytes. Journal of Neuroscience, 2007, 27, 4233-4242.	1.7	179
69	Notch1 signaling plays a role in regulating precursor differentiation during CNS remyelination. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19162-19167.	3.3	179
70	Development of NG2 neural progenitor cells requires Olig gene function. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7853-7858.	3.3	178
71	A Centrosomal Cdc20-APC Pathway Controls Dendrite Morphogenesis in Postmitotic Neurons. Cell, 2009, 136, 322-336.	13.5	177
72	GDNF Induces Branching and Increased Cell Proliferation in the Ureter of the Mouse. Developmental Biology, 1997, 192, 193-198.	0.9	164

#	Article	IF	Citations
73	Pro-neural miR-128 is a glioma tumor suppressor that targets mitogenic kinases. Oncogene, 2012, 31, 1884-1895.	2.6	164
74	Overcoming remyelination failure in multiple sclerosis and other myelin disorders. Experimental Neurology, 2010, 225, 18-23.	2.0	161
75	Evolving Concepts of Gliogenesis: A Look Way Back and Ahead to the Next 25 Years. Neuron, 2013, 80, 613-623.	3.8	161
76	An â€˜oligarchyâ€™ rules neural development. Trends in Neurosciences, 2002, 25, 417-422.	4.2	160
77	Oligodendrocyte lineage genes (OLIG) as molecular markers for human glial brain tumors. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 10851-10856.	3.3	159
78	N-myc Is an Essential Downstream Effector of Shh Signaling during both Normal and Neoplastic Cerebellar Growth. Cancer Research, 2006, 66, 8655-8661.	0.4	157
79	Conserved mechanisms across development and tumorigenesis revealed by a mouse development perspective of human cancers. Genes and Development, 2004, 18, 629-640.	2.7	154
80	Insulin-like growth factor type 1 receptor signaling in the cells of oligodendrocyte lineage is required for normalin vivo oligodendrocyte development and myelination. Glia, 2007, 55, 400-411.	2.5	153
81	Behaviorally consequential astrocytic regulation of neural circuits. Neuron, 2021, 109, 576-596.	3.8	150
82	Specification of astrocytes by bHLH protein SCL in a restricted region of the neural tube. Nature, 2005, 438, 360-363.	13.7	149
83	Pax-2 expression in the murine neural plate precedes and encompasses the expression domains of Wnt-1 and En-1. Mechanisms of Development, 1995, 52, 3-8.	1.7	148
84	Oligodendrocyte <i>PTEN</i> is required for myelin and axonal integrity, not remyelination. Annals of Neurology, 2010, 68, 703-716.	2.8	148
85	Targeted Therapy for <i>BRAFV600E</i> Malignant Astrocytoma. Clinical Cancer Research, 2011, 17, 7595-7604.	3.2	143
86	Astrocyte Unfolded Protein Response Induces a Specific Reactivity State that Causes Non-Cell-Autonomous Neuronal Degeneration. Neuron, 2020, 105, 855-866.e5.	3.8	143
87	The Central Nervous System-Restricted Transcription Factor Olig2 Opposes p53 Responses to Genotoxic Damage in Neural Progenitors and Malignant Glioma. Cancer Cell, 2011, 19, 359-371.	7.7	141
88	Separated at birth? The functional and molecular divergence of OLIG1 and OLIG2. Nature Reviews Neuroscience, 2012, 13, 819-831.	4.9	141
89	Olig bHLH proteins interact with homeodomain proteins to regulate cell fate acquisition in progenitors of the ventral neural tube. Current Biology, 2001, 11, 1413-1420.	1.8	135
90	Hypomyelinating leukodystrophies: Translational research progress and prospects. Annals of Neurology, 2014, 76, 5-19.	2.8	132

#	Article	IF	Citations
91	Fibrinogen Activates BMP Signaling in Oligodendrocyte Progenitor Cells and Inhibits Remyelination after Vascular Damage. Neuron, 2017, 96, 1003-1012.e7.	3.8	131
92	The Cdk1 Complex Plays a Prime Role in Regulating N-Myc Phosphorylation and Turnover in Neural Precursors. Developmental Cell, 2005, 9, 327-338.	3.1	129
93	A regulatory network involving Foxn4, Mash1 and delta-like 4/Notch1 generates V2a and V2b spinal interneurons from a common progenitor pool. Development (Cambridge), 2007, 134, 3427-3436.	1.2	121
94	Hedgehog-dependent oligodendrocyte lineage specification in the telencephalon. Development (Cambridge), 2001, 128, 2545-54.	1.2	118
95	A Genome-Wide Screen for Spatially Restricted Expression Patterns Identifies Transcription Factors That Regulate Glial Development. Journal of Neuroscience, 2009, 29, 11399-11408.	1.7	117
96	Species-Dependent Posttranscriptional Regulation of NOS1 by FMRP in the Developing Cerebral Cortex. Cell, 2012, 149, 899-911.	13.5	115
97	Regulated temporal-spatial astrocyte precursor cell proliferation involves BRAF signalling in mammalian spinal cord. Development (Cambridge), 2012, 139, 2477-2487.	1.2	112
98	Kir4.1-Dependent Astrocyte-Fast Motor Neuron Interactions Are Required for Peak Strength. Neuron, 2018, 98, 306-319.e7.	3.8	110
99	Origins and Proliferative States of Human Oligodendrocyte Precursor Cells. Cell, 2020, 182, 594-608.e11.	13.5	110
100	Ectopic expression of Olig1 promotes oligodendrocyte formation and reduces neuronal survival in developing mouse cortex. Nature Neuroscience, 2001, 4, 973-974.	7.1	108
101	Transcription factor co-expression patterns indicate heterogeneity of oligodendroglial subpopulations in adult spinal cord. Glia, 2006, 54, 35-46.	2.5	108
102	Towards improved animal models of neonatal white matter injury associated with cerebral palsy. DMM Disease Models and Mechanisms, 2010, 3, 678-688.	1.2	106
103	Phosphorylation State of Olig2 Regulates Proliferation of Neural Progenitors. Neuron, 2011, 69, 906-917.	3.8	105
104	Oligodendrocyte development in the spinal cord and telencephalon: common themes and new perspectives. International Journal of Developmental Neuroscience, 2001, 19, 379-385.	0.7	104
105	Hedgehog signaling has a protective effect in glucocorticoid-induced mouse neonatal brain injury through an 11Î²HSD2-dependent mechanism. Journal of Clinical Investigation, 2009, 119, 267-77.	3.9	103
106	Parallel states of pathological Wnt signaling in neonatal brain injury and colon cancer. Nature Neuroscience, 2014, 17, 506-512.	7.1	98
107	Decreased microglial Wnt/Î²-catenin signalling drives microglial pro-inflammatory activation in the developing brain. Brain, 2019, 142, 3806-3833.	3.7	97
108	Identification of the Kappa-Opioid Receptor as a Therapeutic Target for Oligodendrocyte Remyelination. Journal of Neuroscience, 2016, 36, 7925-7935.	1.7	90

#	Article	IF	Citations
109	Systematic Three-Dimensional Coculture Rapidly Recapitulates Interactions between Human Neurons and Astrocytes. Stem Cell Reports, 2017, 9, 1745-1753.	2.3	90
110	Six3 promotes the formation of ectopic optic vesicle-like structures in mouse embryos. Developmental Dynamics, 2001, 221, 342-349.	0.8	89
111	Medulloblastoma tumorigenesis diverges from cerebellar granule cell differentiation in patched heterozygous mice. Developmental Biology, 2003, 263, 50-66.	0.9	89
112	Heparan sulfate sulfatase SULF2 regulates PDGFRÎ± signaling and growth in human and mouse malignant glioma. Journal of Clinical Investigation, 2012, 122, 911-922.	3.9	87
113	Histology-Based Expression Profiling Yields Novel Prognostic Markers in Human Glioblastoma. Journal of Neuropathology and Experimental Neurology, 2005, 64, 948-955.	0.9	85
114	Forkhead Transcription Factor FoxM1 Regulates Mitotic Entry and Prevents Spindle Defects in Cerebellar Granule Neuron Precursors. Molecular and Cellular Biology, 2007, 27, 8259-8270.	1.1	84
115	A FOXOâ€"Pak1 transcriptional pathway controls neuronal polarity. Genes and Development, 2010, 24, 799-813.	2.7	83
116	Oligodendrocyte Regeneration after Neonatal Hypoxia Requires FoxO1-Mediated p27^{Kip1}Expression. Journal of Neuroscience, 2012, 32, 14775-14793.	1.7	82
117	STAT3â€Mediated astrogliosis protects myelin development in neonatal brain injury. Annals of Neurology, 2012, 72, 750-765.	2.8	81
118	Reactive astrocyte COX2â€PGE2 production inhibits oligodendrocyte maturation in neonatal white matter injury. Glia, 2017, 65, 2024-2037.	2.5	81
119	Interactions between DNA and coat protein in the structure and assembly of filamentous bacteriophage fd. Nature, 1987, 327, 252-254.	13.7	80
120	Sonic Hedgehog Is Required during an Early Phase of Oligodendrocyte Development in Mammalian Brain. Molecular and Cellular Neurosciences, 2001, 18, 434-441.	1.0	80
121	Neurocritical Care for Neonates. Neurocritical Care, 2010, 12, 421-429.	1.2	80
122	Cooperative interactions of BRAF ^{V600E} kinase and <i>CDKN2A</i> locus deficiency in pediatric malignant astrocytoma as a basis for rational therapy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8710-8715.	3.3	77
123	<i>Dlx1<i>and</i>Dlx2</i>Promote Interneuron GABA Synthesis, Synaptogenesis, and Dendritogenesis. Cerebral Cortex, 2018, 28, 3797-3815.	1.6	72
124	Sonic hedgehog-associated medulloblastoma arising from the cochlear nuclei of the brainstem. Acta Neuropathologica, 2012, 123, 601-614.	3.9	71
125	Oligodendrocyte-encoded Kir4.1 function is required for axonal integrity. ELife, 2018, 7, .	2.8	71
126	Dysregulation of astrocyte extracellular signaling in Costello syndrome. Science Translational Medicine, 2015, 7, 286ra66.	5.8	70

#	Article	IF	Citations
127	Identification of genes expressed with temporal-spatial restriction to developing cerebellar neuron precursors by a functional genomic approach. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5704-5709.	3.3	69
128	Cross-Repressive Interaction of the Olig2 and Nkx2.2 Transcription Factors in Developing Neural Tube Associated with Formation of a Specific Physical Complex. Journal of Neuroscience, 2003, 23, 9547-9556.	1.7	68
129	Voltage-gated potassium channel EAG2 controls mitotic entry and tumor growth in medulloblastoma via regulating cell volume dynamics. Genes and Development, 2012, 26, 1780-1796.	2.7	68
130	A Small-Molecule Smoothened Agonist Prevents Glucocorticoid-Induced Neonatal Cerebellar Injury. Science Translational Medicine, 2011, 3, 105ra104.	5.8	67
131	Expression of Oligodendroglial and Astrocytic Lineage Markers in Diffuse Gliomas. Journal of Neuropathology and Experimental Neurology, 2006, 65, 1149-1156.	0.9	64
132	OLIG2 is differentially expressed in pediatric astrocytic and in ependymal neoplasms. Journal of Neuro-Oncology, 2011, 104, 423-438.	1.4	63
133	Olig1 Function Is Required to Repress Dlx1/2 and Interneuron Production in Mammalian Brain. Neuron, 2014, 81, 574-587.	3.8	63
134	Sirt1 regulates glial progenitor proliferation and regeneration in white matter after neonatal brain injury. Nature Communications, 2016, 7, 13866.	5.8	63
135	Olig2 expression, GFAP, p53 and 1p loss analysis contribute to glioma subclassification. Neuropathology and Applied Neurobiology, 2005, 31, 62-69.	1.8	62
136	Expression profiling of Aldh1l1â€precursors in the developing spinal cord reveals glial lineageâ€specific genes and direct Sox9â€Nfe2l1 interactions. Glia, 2013, 61, 1518-1532.	2.5	61
137	Oligodendrocyte Death in Pelizaeus-Merzbacher Disease Is Rescued by Iron Chelation. Cell Stem Cell, 2019, 25, 531-541.e6.	5.2	60
138	Astrocytes: The Final Frontierâ€¦. Neuron, 2016, 89, 1-2.	3.8	59
139	MC3R links nutritional state to childhood growth and the timing of puberty. Nature, 2021, 599, 436-441.	13.7	59
140	Protein Kinase C-associated Kinase (PKK), a Novel Membrane-associated, Ankyrin Repeat-containing Protein Kinase. Journal of Biological Chemistry, 2001, 276, 21737-21744.	1.6	57
141	The role of <i>Tal2</i> and <i>Tal1</i> in the differentiation of midbrain GABAergic neuron precursors. Biology Open, 2013, 2, 990-997.	0.6	57
142	Medulloblastoma: A problem of developmental biology. Cancer Cell, 2002, 2, 7-8.	7.7	56
143	Dach1, a vertebrate homologue of Drosophila dachshund, is expressed in the developing eye and ear of both chick and mouse and is regulated independently of Pax and Eya genes. Mechanisms of Development, 2002, 111, 75-87.	1.7	55
144	Characterization of Pax-2 Regulatory Sequences That Direct Transgene Expression in the Wolffian Duct and Its Derivatives. Developmental Biology, 2001, 229, 128-140.	0.9	53

#	Article	IF	Citations
145	Loss of Emx2 function leads to ectopic expression of Wnt1 in the developing telencephalon and cortical dysplasia. Development (Cambridge), 2003, 130, 2275-2287.	1.2	53
146	Wnt-Dependent Oligodendroglial-Endothelial Interactions Regulate White Matter Vascularization and Attenuate Injury. Neuron, 2020, 108, 1130-1145.e5.	3.8	52
147	Identification of molecular compartments and genetic circuitry in the developing mammalian kidney. Development (Cambridge), 2012, 139, 1863-1873.	1.2	51
148	A single homeodomain binding site restricts spatial expression of Wnt-1 in the developing brain. Mechanisms of Development, 1995, 53, 87-96.	1.7	48
149	Myelin Regeneration in Multiple Sclerosis: Targeting Endogenous Stem Cells. Neurotherapeutics, 2011, 8, 650-658.	2.1	47
150	Missense mutation in mouse GALC mimics human gene defect and offers new insights into Krabbe disease. Human Molecular Genetics, 2013, 22, 3397-3414.	1.4	47
151	Î²-catenin function is required for cerebellar morphogenesis. Brain Research, 2007, 1140, 161-169.	1.1	46
152	An update on human astrocytes and their role in development and disease. Glia, 2020, 68, 685-704.	2.5	46
153	Dysregulation of locus coeruleus development in congenital central hypoventilation syndrome. Acta Neuropathologica, 2015, 130, 171-183.	3.9	45
154	Disease specific therapies in leukodystrophies and leukoencephalopathies. Molecular Genetics and Metabolism, 2015, 114, 527-536.	0.5	45
155	Cerebellar â€˜transcriptomeâ€™ reveals cell-type and stage-specific expression during postnatal development and tumorigenesis. Molecular and Cellular Neurosciences, 2006, 33, 247-259.	1.0	42
156	Lineage-Restricted OLIG2-RTK Signaling Governs the Molecular Subtype of Glioma Stem-like Cells. Cell Reports, 2016, 16, 2838-2845.	2.9	41
157	Diversity and Function of Glial Cell Types in Multiple Sclerosis. Trends in Immunology, 2021, 42, 228-247.	2.9	41
158	Postnatal growth of the human pons: A morphometric and immunohistochemical analysis. Journal of Comparative Neurology, 2015, 523, 449-462.	0.9	39
159	NIH consensus development conference: Inhaled nitric oxide therapy for premature infants. NIH Consensus and State-of-the-science Statements, 2010, 27, 1-34.	7.0	39
160	Expression of the Homeobox-containing Genes EN1 and EN2 in Human Fetal Midgestational Medulla and Cerebellum. Journal of Neuropathology and Experimental Neurology, 1997, 56, 236-242.	0.9	38
161	Variable electrostatic interaction between DNA and coat protein in filamentous bacteriophage assembly. Journal of Molecular Biology, 1988, 204, 663-674.	2.0	37
162	Cerebellar abnormalities following hypoxia alone compared to hypoxicâ€“ischemic forebrain injury in the developing rat brain. Neurobiology of Disease, 2011, 41, 138-146.	2.1	36

#	Article	IF	Citations
163	Ablation of NG2 Proteoglycan Leads to Deficits in Brown Fat Function and to Adult Onset Obesity. PLoS ONE, 2012, 7, e30637.	1.1	35
164	Long-Term Safety, Immunologic Response, and Imaging Outcomes following Neural Stem Cell Transplantation for Pelizaeus-Merzbacher Disease. Stem Cell Reports, 2019, 13, 254-261.	2.3	34
165	Nuclear Localization of the Mitochondrial Factor HIGD1A during Metabolic Stress. PLoS ONE, 2013, 8, e62758.	1.1	32
166	A Sequentially Priming Phosphorylation Cascade Activates the Gliomagenic Transcription Factor Olig2. Cell Reports, 2017, 18, 3167-3177.	2.9	32
167	Evidence that nuclear factor IA inhibits repair after white matter injury. Annals of Neurology, 2012, 72, 224-233.	2.8	31
168	Oxygen Tension and the VHL-Hif1Î± Pathway Determine Onset of Neuronal Polarization and Cerebellar Germinal Zone Exit. Neuron, 2020, 106, 607-623.e5.	3.8	31
169	Pax-2 regulatory sequences that direct transgene expression in the developing neural plate and external granule cell layer of the cerebellum. Developmental Brain Research, 1999, 117, 99-108.	2.1	29
170	Identification of proliferative progenitors associated with prominent postnatal growth of the pons. Nature Communications, 2016, 7, 11628.	5.8	29
171	Concise Review: Stem Cell-Based Treatment of Pelizaeus-Merzbacher Disease. Stem Cells, 2017, 35, 311-315.	1.4	28
172	Olig1 function is required for remyelination potential of transplanted neural progenitor cells in a model of viral-induced demyelination. Experimental Neurology, 2012, 235, 380-387.	2.0	25
173	Sonic Hedgehog Agonist Protects Against Complex Neonatal Cerebellar Injury. Cerebellum, 2018, 17, 213-227.	1.4	22
174	NEONATAL HERPES SIMPLEX VIRUS INFECTION PRESENTING AS FULMINANT LIVER FAILURE. Pediatric Infectious Disease Journal, 1995, 14, 242-243.	1.1	21
175	An Amino Terminal Phosphorylation Motif Regulates Intranuclear Compartmentalization of Olig2 in Neural Progenitor Cells. Journal of Neuroscience, 2014, 34, 8507-8518.	1.7	21
176	Identification of an evolutionarily conserved 110 base-pair cis-acting regulatory sequence that governs Wnt-1 expression in the murine neural plate. Development (Cambridge), 1998, 125, 2735-46.	1.2	20
177	Evidence for motoneuron lineage-specific regulation of Olig2 in the vertebrate neural tube. Developmental Biology, 2006, 292, 152-164.	0.9	19
178	Dexamethasone Destabilizes Nmyc to Inhibit the Growth of Hedgehog-Associated Medulloblastoma. Cancer Research, 2010, 70, 5220-5225.	0.4	19
179	Cerebellar cortical lamination and foliation require cyclin A2. Developmental Biology, 2014, 385, 328-339.	0.9	19
180	On-chip perivascular<i>niche</i>supporting stemness of patient-derived glioma cells in a serum-free, flowable culture. Lab on A Chip, 2021, 21, 2343-2358.	3.1	19

#	Article	IF	Citations
181	Myelin Restoration: Progress and Prospects for Human Cell Replacement Therapies. Archivum Immunologiae Et Therapiae Experimentalis, 2011, 59, 179-193.	1.0	17
182	The Role of the Neurointensive Care Nursery for Neonatal Encephalopathy. Clinics in Perinatology, 2016, 43, 547-557.	0.8	17
183	Cystic malformation of the posterior cerebellar vermis in transgenic mice that ectopically expressEngrailed-1, a homeodomain transcription factor. , 1999, 60, 22-28.		16
184	The neurointensive nursery: concept, development, and insights gained. Current Opinion in Pediatrics, 2019, 31, 202-209.	1.0	16
185	Synchronization of Goat Fibroblast Cells at Quiescent Stage and Determination of Their Transition from G0 to G1 by Detection of Cyclin D1 mRNA. Cloning and Stem Cells, 2004, 6, 58-66.	2.6	15
186	Cucurbit[8]uril-Derived Graphene Hydrogels. ACS Macro Letters, 2019, 8, 1629-1634.	2.3	15
187	<i>Olig1</i> is required for nogginâ€induced neonatal myelin repair. Annals of Neurology, 2017, 81, 560-571.	2.8	13
188	Ferret brain possesses young interneuron collections equivalent to human postnatal migratory streams. Journal of Comparative Neurology, 2019, 527, 2843-2859.	0.9	13
189	Evidence for glutamine synthetase function in mouse spinal cord oligodendrocytes. Glia, 2021, 69, 2812-2827.	2.5	13
190	Expression and function of Nkx6.3 in vertebrate hindbrain. Brain Research, 2008, 1222, 42-50.	1.1	12
191	Moderate-Grade Germinal Matrix Haemorrhage Activates Cell Division in the Neonatal Mouse Subventricular Zone. Developmental Neuroscience, 2016, 38, 430-444.	1.0	12
192	The role of prenatal steroids at 34â€“36 weeks of gestation. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2017, 102, F284-F285.	1.4	12
193	Neuroprotective effects of Sonic hedgehog agonist SAG in a rat model of neonatal stroke. Pediatric Research, 2021, 90, 1161-1170.	1.1	10
194	Sustaining careers of physician-scientists in neonatology and pediatric critical care medicine: formulating supportive departmental policies. Pediatric Research, 2016, 80, 635-640.	1.1	9
195	Generation of functional human oligodendrocytes from dermal fibroblasts by direct lineage conversion. Development (Cambridge), 2022, 149, .	1.2	8
196	Cloning and expression of the filamentous bacteriophage Pf1 major coat protein gene in Escherichia coli. Journal of Molecular Biology, 1987, 195, 873-884.	2.0	7
197	Effect of coat protein mutations in bacteriophage fd studied by sedimentation analysis. Biophysical Journal, 1992, 63, 1293-1298.	0.2	7
198	Multicenter Consensus Approach to Evaluation of Neonatal Hypotonia in the Genomic Era: A Review. JAMA Neurology, 2022, 79, 405.	4.5	7

#	Article	IF	Citations
199	Cell interactions in patterning the mammalian midbrain. Cold Spring Harbor Symposia on Quantitative Biology, 1997, 62, 535-44.	2.0	4
200	Refinements and considerations for trio whole-genome sequence analysis when investigating Mendelian diseases presenting in early childhood. Human Genetics and Genomics Advances, 2022, 3, 100113.	1.0	4
201	Applying support-vector machine learning algorithms toward predicting hostâ€"guest interactions with cucurbit[7]uril. Physical Chemistry Chemical Physics, 2020, 22, 14976-14982.	1.3	3
202	Oligodendrocytes: Cells of Origin for White Matter Injury in the Developing Brain. Neuromethods, 2016, , 281-301.	0.2	3
203	Regulated temporal-spatial astrocyte precursor cell proliferation involves BRAF signalling in mammalian spinal cord.. Journal of Cell Science, 2012, 125, e1-e1.	1.2	2
204	DNA-protein interactions and DNA packaging in filamentous bacteriophages. Biochemical Society Transactions, 1986, 14, 1168-1169.	1.6	1
205	A classification of videoconferencing related illness: the Zoomnotic diseases. QJM - Monthly Journal of the Association of Physicians, 2021, 114, 159-162.	0.2	1
206	Regulation of Early Events in Cell Cycle Progression by Hedgehog Signaling in CNS Development and Tumorigenesis. , 2006, , 187-209.		0
207	Role of academic medical centers in cell-based therapeutic clinical trials. Translational Research, 2011, 157, 320-321.	2.2	0
208	New Recipes for Myelinating Oligodendrocytes. Cell Stem Cell, 2018, 23, 464-465.	5.2	0
209	Identifying the Zika Virus Target Cell in Malignant Glioma. Neuro-Oncology, 2019, 21, iv2-iv2.	0.6	0
210	Reply to â€˜Assembling the brain trust: the multidisciplinary imperative in neuro-oncologyâ€™. Nature Reviews Clinical Oncology, 2019, 16, 522-523.	12.5	0
211	803. Critical Care Medicine, 2019, 47, 380.	0.4	0
212	Letter to Editor Response to: Is zoomnosis a human-driven human zoonosis? A call for action. QJM - Monthly Journal of the Association of Physicians, 2021, 114, 143-143.	0.2	0
213	Glioma invasion: Identification of determinants of invasion using timeâ€lapse imaging. FASEB Journal, 2008, 22, .	0.2	0
214	Novel regulation of PDGFRÎ± activation in Glioblastoma. FASEB Journal, 2012, 26, 479.7.	0.2	0
215	Oxygen-Tension and the VHL-Hif1Î± Pathway Comprise a Developmental Switch Controlling the Onset of Neuronal Polarization and Germinal Zone Exit. SSRN Electronic Journal, 0, , .	0.4	0