

David H Rowitch

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214
papers

34,047
citations

95
h-index

184
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227
ext. papers

40,345
ext. citations

12.8
avg, IF

7
L-index

#	Paper	IF	Citations
214	Neurotoxic reactive astrocytes are induced by activated microglia. <i>Nature</i> , 2017 , 541, 481-487	50.4	2875
213	Conserved role of intragenic DNA methylation in regulating alternative promoters. <i>Nature</i> , 2010 , 466, 253-7	50.4	1298
212	Modification of gene activity in mouse embryos in utero by a tamoxifen-inducible form of Cre recombinase. <i>Current Biology</i> , 1998 , 8, 1323-6	6.3	1065
211	Malignant glioma: genetics and biology of a grave matter. <i>Genes and Development</i> , 2001 , 15, 1311-33	12.6	934
210	Common developmental requirement for Olig function indicates a motor neuron/oligodendrocyte connection. <i>Cell</i> , 2002 , 109, 75-86	56.2	844
209	Single-cell reconstruction of the early maternal-fetal interface in humans. <i>Nature</i> , 2018 , 563, 347-353	50.4	792
208	Origin of oligodendrocytes in the subventricular zone of the adult brain. <i>Journal of Neuroscience</i> , 2006 , 26, 7907-18	6.6	743
207	Sonic hedgehog--regulated oligodendrocyte lineage genes encoding bHLH proteins in the mammalian central nervous system. <i>Neuron</i> , 2000 , 25, 317-29	13.9	704
206	Corridors of migrating neurons in the human brain and their decline during infancy. <i>Nature</i> , 2011 , 478, 382-6	50.4	608
205	Inactivation of the beta-catenin gene by Wnt1-Cre-mediated deletion results in dramatic brain malformation and failure of craniofacial development. <i>Development (Cambridge)</i> , 2001 , 128, 1253-64	6.6	566
204	Epidermal growth factor receptor and Ink4a/Arf: convergent mechanisms governing terminal differentiation and transformation along the neural stem cell to astrocyte axis. <i>Cancer Cell</i> , 2002 , 1, 269-273	24.3	559
203	Fate of the mammalian cranial neural crest during tooth and mandibular morphogenesis. <i>Development (Cambridge)</i> , 2000 , 127, 1671-9	6.6	551
202	Medulloblastoma can be initiated by deletion of Patched in lineage-restricted progenitors or stem cells. <i>Cancer Cell</i> , 2008 , 14, 135-45	24.3	509
201	Acquisition of granule neuron precursor identity is a critical determinant of progenitor cell competence to form Shh-induced medulloblastoma. <i>Cancer Cell</i> , 2008 , 14, 123-34	24.3	482
200	Fate of the mammalian cardiac neural crest. <i>Development (Cambridge)</i> , 2000 , 127, 1607-16	6.6	468
199	Dysregulation of the Wnt pathway inhibits timely myelination and remyelination in the mammalian CNS. <i>Genes and Development</i> , 2009 , 23, 1571-85	12.6	459
198	Astrocytes and disease: a neurodevelopmental perspective. <i>Genes and Development</i> , 2012 , 26, 891-907	12.6	447

197	Developmental genetics of vertebrate glial-cell specification. <i>Nature</i> , 2010 , 468, 214-22	50.4	444
196	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, 578-90	18	438
195	Sonic hedgehog promotes G(1) cyclin expression and sustained cell cycle progression in mammalian neuronal precursors. <i>Molecular and Cellular Biology</i> , 2000 , 20, 9055-67	4.8	437
194	Nmyc upregulation by sonic hedgehog signaling promotes proliferation in developing cerebellar granule neuron precursors. <i>Development (Cambridge)</i> , 2003 , 130, 15-28	6.6	372
193	Olig2-regulated lineage-restricted pathway controls replication competence in neural stem cells and malignant glioma. <i>Neuron</i> , 2007 , 53, 503-17	13.9	369
192	bHLH transcription factor Olig1 is required to repair demyelinated lesions in the CNS. <i>Science</i> , 2004 , 306, 2111-5	33.3	345
191	Myelin gene regulatory factor is a critical transcriptional regulator required for CNS myelination. <i>Cell</i> , 2009 , 138, 172-85	56.2	342
190	Regional astrocyte allocation regulates CNS synaptogenesis and repair. <i>Science</i> , 2012 , 337, 358-62	33.3	341
189	Mouse brain organization revealed through direct genome-scale TF expression analysis. <i>Science</i> , 2004 , 306, 2255-7	33.3	339
188	Glial specification in the vertebrate neural tube. <i>Nature Reviews Neuroscience</i> , 2004 , 5, 409-19	13.5	336
187	Sox9 is required for determination of the chondrogenic cell lineage in the cranial neural crest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 9360-5	11.5	332
186	The oligodendroglial lineage marker OLIG2 is universally expressed in diffuse gliomas. <i>Journal of Neuropathology and Experimental Neurology</i> , 2004 , 63, 499-509	3.1	322
185	Sonic hedgehog regulates proliferation and inhibits differentiation of CNS precursor cells. <i>Journal of Neuroscience</i> , 1999 , 19, 8954-65	6.6	316
184	Smaller inner ear sensory epithelia in Neurog 1 null mice are related to earlier hair cell cycle exit. <i>Developmental Dynamics</i> , 2005 , 234, 633-50	2.9	313
183	Expression pattern of the transcription factor Olig2 in response to brain injuries: implications for neuronal repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 18183-8	11.5	300
182	Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021 , 24, 312-325	35	298
181	Functional diversity of astrocytes in neural circuit regulation. <i>Nature Reviews Neuroscience</i> , 2017 , 18, 31-41	13.5	291
180	Challenges to curing primary brain tumours. <i>Nature Reviews Clinical Oncology</i> , 2019 , 16, 509-520	19.4	284

179	Dlx1 and Dlx2 control neuronal versus oligodendroglial cell fate acquisition in the developing forebrain. <i>Neuron</i> , 2007 , 55, 417-33	13.9	271
178	Axin2 as regulatory and therapeutic target in newborn brain injury and remyelination. <i>Nature Neuroscience</i> , 2011 , 14, 1009-16	25.5	265
177	Glioma stem cells: a midterm exam. <i>Neuron</i> , 2008 , 58, 832-46	13.9	257
176	A dramatic increase of C1q protein in the CNS during normal aging. <i>Journal of Neuroscience</i> , 2013 , 33, 13460-74	6.6	256
175	Myelin regeneration: a recapitulation of development?. <i>Annual Review of Neuroscience</i> , 2011 , 34, 21-43	17	242
174	Small-molecule inhibitors reveal multiple strategies for Hedgehog pathway blockade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14132-7	11.5	242
173	Single-cell genomics identifies cell type-specific molecular changes in autism. <i>Science</i> , 2019 , 364, 685-689	33.3	239
172	Oligodendrocyte-encoded HIF function couples postnatal myelination and white matter angiogenesis. <i>Cell</i> , 2014 , 158, 383-396	56.2	230
171	Hedgehog-dependent oligodendrocyte lineage specification in the telencephalon. <i>Development (Cambridge)</i> , 2001 , 128, 2545-2554	6.6	228
170	A novel somatic mouse model to survey tumorigenic potential applied to the Hedgehog pathway. <i>Cancer Research</i> , 2006 , 66, 10171-8	10.1	223
169	Development of mice expressing a single D-type cyclin. <i>Genes and Development</i> , 2002 , 16, 3277-89	12.6	209
168	Extensive migration of young neurons into the infant human frontal lobe. <i>Science</i> , 2016 , 354,	33.3	209
167	Neural stem cell engraftment and myelination in the human brain. <i>Science Translational Medicine</i> , 2012 , 4, 155ra137	17.5	208
166	Astrocyte development and heterogeneity. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 7, a020362	10.2	203
165	Astrocyte-encoded positional cues maintain sensorimotor circuit integrity. <i>Nature</i> , 2014 , 509, 189-94	50.4	202
164	Oncogenic BRAF mutation with CDKN2A inactivation is characteristic of a subset of pediatric malignant astrocytomas. <i>Cancer Research</i> , 2010 , 70, 512-9	10.1	201
163	Essential role of Sox9 in the pathway that controls formation of cardiac valves and septa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6502-7	11.5	201
162	Hedgehog-responsive candidate cell of origin for diffuse intrinsic pontine glioma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 4453-8	11.5	194

161	Myelin abnormalities without oligodendrocyte loss in periventricular leukomalacia. <i>Brain Pathology</i> , 2008 , 18, 153-63	6	194
160	Molecular diversity of astrocytes with implications for neurological disorders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8384-9	11.5	185
159	Olig gene function in CNS development and disease. <i>Glia</i> , 2006 , 54, 1-10	9	181
158	Hedgehog and PI-3 kinase signaling converge on Nmyc1 to promote cell cycle progression in cerebellar neuronal precursors. <i>Development (Cambridge)</i> , 2004 , 131, 217-28	6.6	176
157	Neuronal vulnerability and multilineage diversity in multiple sclerosis. <i>Nature</i> , 2019 , 573, 75-82	50.4	173
156	Development of NG2 neural progenitor cells requires Olig gene function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 7853-8	11.5	171
155	Inhibition of phosphatidylinositol 3-kinase destabilizes Mycn protein and blocks malignant progression in neuroblastoma. <i>Cancer Research</i> , 2006 , 66, 8139-46	10.1	164
154	The proneural gene Mash1 specifies an early population of telencephalic oligodendrocytes. <i>Journal of Neuroscience</i> , 2007 , 27, 4233-42	6.6	161
153	Neurite outgrowth inhibitor Nogo-A establishes spatial segregation and extent of oligodendrocyte myelination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 1299-304	11.5	160
152	Notch1 signaling plays a role in regulating precursor differentiation during CNS remyelination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 19162-7	11.5	156
151	GDNF induces branching and increased cell proliferation in the ureter of the mouse. <i>Developmental Biology</i> , 1997 , 192, 193-8	3.1	154
150	A centrosomal Cdc20-APC pathway controls dendrite morphogenesis in postmitotic neurons. <i>Cell</i> , 2009 , 136, 322-36	56.2	153
149	NIH Consensus Development Conference statement: inhaled nitric-oxide therapy for premature infants. <i>Pediatrics</i> , 2011 , 127, 363-9	7.4	152
148	Pro-neural miR-128 is a glioma tumor suppressor that targets mitogenic kinases. <i>Oncogene</i> , 2012 , 31, 1884-95	9.2	150
147	Niche stiffness underlies the ageing of central nervous system progenitor cells. <i>Nature</i> , 2019 , 573, 130-134	36.4	144
146	The metabolic defect of methionine dependence occurs frequently in human tumor cell lines. <i>Biochemical and Biophysical Research Communications</i> , 1983 , 117, 429-34	3.4	144
145	Astrocyte layers in the mammalian cerebral cortex revealed by a single-cell in situ transcriptomic map. <i>Nature Neuroscience</i> , 2020 , 23, 500-509	25.5	142
144	Oligodendrocyte lineage genes (OLIG) as molecular markers for human glial brain tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 10851-6	11.5	142

143	An oligarchy rules neural development. <i>Trends in Neurosciences</i> , 2002 , 25, 417-22	13.3	141
142	Pax-2 expression in the murine neural plate precedes and encompasses the expression domains of Wnt-1 and En-1. <i>Mechanisms of Development</i> , 1995 , 52, 3-8	1.7	140
141	Insulin-like growth factor type 1 receptor signaling in the cells of oligodendrocyte lineage is required for normal in vivo oligodendrocyte development and myelination. <i>Glia</i> , 2007 , 55, 400-11	9	134
140	N-myc is an essential downstream effector of Shh signaling during both normal and neoplastic cerebellar growth. <i>Cancer Research</i> , 2006 , 66, 8655-61	10.1	134
139	Overcoming remyelination failure in multiple sclerosis and other myelin disorders. <i>Experimental Neurology</i> , 2010 , 225, 18-23	5.7	132
138	Oligodendrocyte PTEN is required for myelin and axonal integrity, not remyelination. <i>Annals of Neurology</i> , 2010 , 68, 703-16	9.4	132
137	Specification of astrocytes by bHLH protein SCL in a restricted region of the neural tube. <i>Nature</i> , 2005 , 438, 360-3	50.4	132
136	Conserved mechanisms across development and tumorigenesis revealed by a mouse development perspective of human cancers. <i>Genes and Development</i> , 2004 , 18, 629-40	12.6	129
135	Targeted therapy for BRAFV600E malignant astrocytoma. <i>Clinical Cancer Research</i> , 2011 , 17, 7595-604	12.9	128
134	Origin and dynamics of oligodendrocytes in the developing brain: Implications for perinatal white matter injury. <i>Glia</i> , 2018 , 66, 221-238	9	122
133	The central nervous system-restricted transcription factor Olig2 opposes p53 responses to genotoxic damage in neural progenitors and malignant glioma. <i>Cancer Cell</i> , 2011 , 19, 359-71	24.3	119
132	Olig bHLH proteins interact with homeodomain proteins to regulate cell fate acquisition in progenitors of the ventral neural tube. <i>Current Biology</i> , 2001 , 11, 1413-20	6.3	116
131	Hedgehog-dependent oligodendrocyte lineage specification in the telencephalon. <i>Development (Cambridge)</i> , 2001 , 128, 2545-54	6.6	115
130	Evolving concepts of gliogenesis: a look way back and ahead to the next 25 years. <i>Neuron</i> , 2013 , 80, 613-239	13.9	114
129	A Glial Signature and Wnt7 Signaling Regulate Glioma-Vascular Interactions and Tumor Microenvironment. <i>Cancer Cell</i> , 2018 , 33, 874-889.e7	24.3	111
128	Hypomyelinating leukodystrophies: translational research progress and prospects. <i>Annals of Neurology</i> , 2014 , 76, 5-19	9.4	111
127	Separated at birth? The functional and molecular divergence of OLIG1 and OLIG2. <i>Nature Reviews Neuroscience</i> , 2012 , 13, 819-31	13.5	111
126	The Cdk1 complex plays a prime role in regulating N-myc phosphorylation and turnover in neural precursors. <i>Developmental Cell</i> , 2005 , 9, 327-38	10.2	107

125	Ectopic expression of Olig1 promotes oligodendrocyte formation and reduces neuronal survival in developing mouse cortex. <i>Nature Neuroscience</i> , 2001 , 4, 973-4	25.5	102
124	Transcription factor co-expression patterns indicate heterogeneity of oligodendroglial subpopulations in adult spinal cord. <i>Glia</i> , 2006 , 54, 35-46	9	101
123	Oligodendrocyte development in the spinal cord and telencephalon: common themes and new perspectives. <i>International Journal of Developmental Neuroscience</i> , 2001 , 19, 379-85	2.7	101
122	Species-dependent posttranscriptional regulation of NOS1 by FMRP in the developing cerebral cortex. <i>Cell</i> , 2012 , 149, 899-911	56.2	100
121	A regulatory network involving Foxn4, Mash1 and delta-like 4/Notch1 generates V2a and V2b spinal interneurons from a common progenitor pool. <i>Development (Cambridge)</i> , 2007 , 134, 3427-36	6.6	99
120	A genome-wide screen for spatially restricted expression patterns identifies transcription factors that regulate glial development. <i>Journal of Neuroscience</i> , 2009 , 29, 11399-408	6.6	98
119	Phosphorylation state of Olig2 regulates proliferation of neural progenitors. <i>Neuron</i> , 2011 , 69, 906-17	13.9	90
118	Regulated temporal-spatial astrocyte precursor cell proliferation involves BRAF signalling in mammalian spinal cord. <i>Development (Cambridge)</i> , 2012 , 139, 2477-87	6.6	90
117	Hedgehog signaling has a protective effect in glucocorticoid-induced mouse neonatal brain injury through an 11betaHSD2-dependent mechanism. <i>Journal of Clinical Investigation</i> , 2009 , 119, 267-77	15.9	90
116	Fibrinogen Activates BMP Signaling in Oligodendrocyte Progenitor Cells and Inhibits Remyelination after Vascular Damage. <i>Neuron</i> , 2017 , 96, 1003-1012.e7	13.9	86
115	Whole genome sequencing reveals that genetic conditions are frequent in intensively ill children. <i>Intensive Care Medicine</i> , 2019 , 45, 627-636	14.5	84
114	Towards improved animal models of neonatal white matter injury associated with cerebral palsy. <i>DMM Disease Models and Mechanisms</i> , 2010 , 3, 678-88	4.1	82
113	Six3 promotes the formation of ectopic optic vesicle-like structures in mouse embryos. <i>Developmental Dynamics</i> , 2001 , 221, 342-9	2.9	81
112	Forkhead transcription factor FoxM1 regulates mitotic entry and prevents spindle defects in cerebellar granule neuron precursors. <i>Molecular and Cellular Biology</i> , 2007 , 27, 8259-70	4.8	79
111	Identifying the Zika Virus Target Cell in Malignant Glioma. <i>Neuro-Oncology</i> , 2019 , 21, iv2-iv2	1	78
110	Medulloblastoma tumorigenesis diverges from cerebellar granule cell differentiation in patched heterozygous mice. <i>Developmental Biology</i> , 2003 , 263, 50-66	3.1	77
109	Parallel states of pathological Wnt signaling in neonatal brain injury and colon cancer. <i>Nature Neuroscience</i> , 2014 , 17, 506-12	25.5	76
108	Interactions between DNA and coat protein in the structure and assembly of filamentous bacteriophage fd. <i>Nature</i> , 1987 , 327, 252-4	50.4	76

107	Sonic hedgehog is required during an early phase of oligodendrocyte development in mammalian brain. <i>Molecular and Cellular Neurosciences</i> , 2001 , 18, 434-41	4.8	73
106	Astrocyte Unfolded Protein Response Induces a Specific Reactivity State that Causes Non-Cell-Autonomous Neuronal Degeneration. <i>Neuron</i> , 2020 , 105, 855-866.e5	13.9	73
105	A FOXO-Pak1 transcriptional pathway controls neuronal polarity. <i>Genes and Development</i> , 2010 , 24, 799-818	6.8	72
104	Histology-based expression profiling yields novel prognostic markers in human glioblastoma. <i>Journal of Neuropathology and Experimental Neurology</i> , 2005 , 64, 948-55	3.1	72
103	Heparan sulfate sulfatase SULF2 regulates PDGFRβ signaling and growth in human and mouse malignant glioma. <i>Journal of Clinical Investigation</i> , 2012 , 122, 911-22	15.9	71
102	Oligodendrocyte regeneration after neonatal hypoxia requires FoxO1-mediated p27Kip1 expression. <i>Journal of Neuroscience</i> , 2012 , 32, 14775-93	6.6	70
101	Identification of the Kappa-Opioid Receptor as a Therapeutic Target for Oligodendrocyte Remyelination. <i>Journal of Neuroscience</i> , 2016 , 36, 7925-35	6.6	66
100	Cooperative interactions of BRAFV600E kinase and CDKN2A locus deficiency in pediatric malignant astrocytoma as a basis for rational therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8710-5	11.5	64
99	Neurocritical care for neonates. <i>Neurocritical Care</i> , 2010 , 12, 421-9	3.3	64
98	STAT3-mediated astrogliosis protects myelin development in neonatal brain injury. <i>Annals of Neurology</i> , 2012 , 72, 750-65	9.4	63
97	Identification of genes expressed with temporal-spatial restriction to developing cerebellar neuron precursors by a functional genomic approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5704-9	11.5	63
96	Sonic hedgehog-associated medulloblastoma arising from the cochlear nuclei of the brainstem. <i>Acta Neuropathologica</i> , 2012 , 123, 601-14	14.3	61
95	Cross-repressive interaction of the Olig2 and Nkx2.2 transcription factors in developing neural tube associated with formation of a specific physical complex. <i>Journal of Neuroscience</i> , 2003 , 23, 9547-56	6.6	61
94	A small-molecule smoothed agonist prevents glucocorticoid-induced neonatal cerebellar injury. <i>Science Translational Medicine</i> , 2011 , 3, 105ra104	17.5	60
93	Reactive astrocyte COX2-PGE2 production inhibits oligodendrocyte maturation in neonatal white matter injury. <i>Glia</i> , 2017 , 65, 2024-2037	9	57
92	Expression of oligodendroglial and astrocytic lineage markers in diffuse gliomas: use of YKL-40, ApoE, ASCL1, and NKX2-2. <i>Journal of Neuropathology and Experimental Neurology</i> , 2006 , 65, 1149-56	3.1	57
91	Kir4.1-Dependent Astrocyte-Fast Motor Neuron Interactions Are Required for Peak Strength. <i>Neuron</i> , 2018 , 98, 306-319.e7	13.9	55
90	Voltage-gated potassium channel EAG2 controls mitotic entry and tumor growth in medulloblastoma via regulating cell volume dynamics. <i>Genes and Development</i> , 2012 , 26, 1780-96	12.6	54

89	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. <i>Mechanisms of Development</i> , 2002 , 111, 75-87	1.7	54
88	Dysregulation of astrocyte extracellular signaling in Costello syndrome. <i>Science Translational Medicine</i> , 2015 , 7, 286ra66	17.5	53
87	Olig2 expression, GFAP, p53 and 1p loss analysis contribute to glioma subclassification. <i>Neuropathology and Applied Neurobiology</i> , 2005 , 31, 62-9	5.2	53
86	Olig1 function is required to repress dlx1/2 and interneuron production in Mammalian brain. <i>Neuron</i> , 2014 , 81, 574-87	13.9	51
85	Medulloblastoma: a problem of developmental biology. <i>Cancer Cell</i> , 2002 , 2, 7-8	24.3	51
84	Characterization of Pax-2 regulatory sequences that direct transgene expression in the Wolffian duct and its derivatives. <i>Developmental Biology</i> , 2001 , 229, 128-40	3.1	51
83	Decreased microglial Wnt/ β -catenin signalling drives microglial pro-inflammatory activation in the developing brain. <i>Brain</i> , 2019 , 142, 3806-3833	11.2	48
82	OLIG2 is differentially expressed in pediatric astrocytic and in ependymal neoplasms. <i>Journal of Neuro-Oncology</i> , 2011 , 104, 423-38	4.8	48
81	Protein kinase C-associated kinase (PKK), a novel membrane-associated, ankyrin repeat-containing protein kinase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 21737-44	5.4	48
80	Identification of molecular compartments and genetic circuitry in the developing mammalian kidney. <i>Development (Cambridge)</i> , 2012 , 139, 1863-73	6.6	47
79	Loss of Emx2 function leads to ectopic expression of Wnt1 in the developing telencephalon and cortical dysplasia. <i>Development (Cambridge)</i> , 2003 , 130, 2275-87	6.6	47
78	Astrocytes: The Final Frontier \square <i>Neuron</i> , 2016 , 89, 1-2	13.9	46
77	A single homeodomain binding site restricts spatial expression of Wnt-1 in the developing brain. <i>Mechanisms of Development</i> , 1995 , 53, 87-96	1.7	46
76	Sirt1 regulates glial progenitor proliferation and regeneration in white matter after neonatal brain injury. <i>Nature Communications</i> , 2016 , 7, 13866	17.4	45
75	Systematic Three-Dimensional Coculture Rapidly Recapitulates Interactions between Human Neurons and Astrocytes. <i>Stem Cell Reports</i> , 2017 , 9, 1745-1753	8	44
74	Oligodendrocyte-encoded Kir4.1 function is required for axonal integrity. <i>ELife</i> , 2018 , 7,	8.9	43
73	Dlx1 and Dlx2 Promote Interneuron GABA Synthesis, Synaptogenesis, and Dendritogenesis. <i>Cerebral Cortex</i> , 2018 , 28, 3797-3815	5.1	42
72	Beta-catenin function is required for cerebellar morphogenesis. <i>Brain Research</i> , 2007 , 1140, 161-9	3.7	42

71	Expression profiling of Aldh1l1-precursors in the developing spinal cord reveals glial lineage-specific genes and direct Sox9-Nfe2l1 interactions. <i>Glia</i> , 2013 , 61, 1518-32	9	41
70	Behaviorally consequential astrocytic regulation of neural circuits. <i>Neuron</i> , 2021 , 109, 576-596	13.9	39
69	Oligodendrocyte Death in Pelizaeus-Merzbacher Disease Is Rescued by Iron Chelation. <i>Cell Stem Cell</i> , 2019 , 25, 531-541.e6	18	36
68	Missense mutation in mouse GALC mimics human gene defect and offers new insights into Krabbe disease. <i>Human Molecular Genetics</i> , 2013 , 22, 3397-414	5.6	36
67	Myelin regeneration in multiple sclerosis: targeting endogenous stem cells. <i>Neurotherapeutics</i> , 2011 , 8, 650-8	6.4	36
66	Origins and Proliferative States of Human Oligodendrocyte Precursor Cells. <i>Cell</i> , 2020 , 182, 594-608.e1156.2		36
65	NIH consensus development conference: Inhaled nitric oxide therapy for premature infants. <i>NIH Consensus and State-of-the-science Statements</i> , 2010 , 27, 1-34		36
64	Disease specific therapies in leukodystrophies and leukoencephalopathies. <i>Molecular Genetics and Metabolism</i> , 2015 , 114, 527-36	3.7	35
63	Dysregulation of locus coeruleus development in congenital central hypoventilation syndrome. <i>Acta Neuropathologica</i> , 2015 , 130, 171-83	14.3	34
62	Variable electrostatic interaction between DNA and coat protein in filamentous bacteriophage assembly. <i>Journal of Molecular Biology</i> , 1988 , 204, 663-74	6.5	34
61	Cerebellar Transcriptome Reveals cell-type and stage-specific expression during postnatal development and tumorigenesis. <i>Molecular and Cellular Neurosciences</i> , 2006 , 33, 247-59	4.8	33
60	Ablation of NG2 proteoglycan leads to deficits in brown fat function and to adult onset obesity. <i>PLoS ONE</i> , 2012 , 7, e30637	3.7	32
59	Expression of the homeobox-containing genes EN1 and EN2 in human fetal midgestational medulla and cerebellum. <i>Journal of Neuropathology and Experimental Neurology</i> , 1997 , 56, 236-42	3.1	32
58	Postnatal growth of the human pons: a morphometric and immunohistochemical analysis. <i>Journal of Comparative Neurology</i> , 2015 , 523, 449-62	3.4	31
57	The role of Tal2 and Tal1 in the differentiation of midbrain GABAergic neuron precursors. <i>Biology Open</i> , 2013 , 2, 990-7	2.2	29
56	An update on human astrocytes and their role in development and disease. <i>Glia</i> , 2020 , 68, 685-704	9	26
55	Long-Term Safety, Immunologic Response, and Imaging Outcomes following Neural Stem Cell Transplantation for Pelizaeus-Merzbacher Disease. <i>Stem Cell Reports</i> , 2019 , 13, 254-261	8	25
54	Evidence that nuclear factor IA inhibits repair after white matter injury. <i>Annals of Neurology</i> , 2012 , 72, 224-33	9.4	25

53	Lineage-Restricted OLIG2-RTK Signaling Governs the Molecular Subtype of Glioma Stem-like Cells. <i>Cell Reports</i> , 2016 , 16, 2838-2845	10.6	25
52	Pax-2 regulatory sequences that direct transgene expression in the developing neural plate and external granule cell layer of the cerebellum. <i>Developmental Brain Research</i> , 1999 , 117, 99-108		24
51	Cerebellar abnormalities following hypoxia alone compared to hypoxic-ischemic forebrain injury in the developing rat brain. <i>Neurobiology of Disease</i> , 2011 , 41, 138-46	7.5	23
50	Concise Review: Stem Cell-Based Treatment of Pelizaeus-Merzbacher Disease. <i>Stem Cells</i> , 2017 , 35, 311-315	3.85	22
49	Identification of proliferative progenitors associated with prominent postnatal growth of the pons. <i>Nature Communications</i> , 2016 , 7, 11628	17.4	21
48	A Sequentially Priming Phosphorylation Cascade Activates the Gliomagenic Transcription Factor Olig2. <i>Cell Reports</i> , 2017 , 18, 3167-3177	10.6	20
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