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A transcriptome database for astrocytes, neurons, and oligodendrocytes: a new resource for understanding brain development and function

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#	Paper	IF	Citations
2281	Supportive or information-processing functions of the mature protoplasmic astrocyte in the mammalian CNS? A critical appraisal. <b>2007</b> , 3, 181-9		31
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2279	Genetic fate mapping of Olig2 progenitors in the injured adult cerebral cortex reveals preferential differentiation into astrocytes. <b>2008</b> , 86, 3494-502		94
2278	Morphine causes rapid increases in glial activation and neuronal injury in the striatum of inducible HIV-1 Tat transgenic mice. <b>2008</b> , 56, 1414-27		107
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2155	Cellular and subcellular localization of the neuron-specific plasma membrane calcium ATPase PMCA1a in the rat brain. <b>2010</b> , 518, 3169-83	24
2154	Tubulin polymerization-promoting protein (TPPP/p25) is critical for oligodendrocyte differentiation. <b>2010</b> , 58, 157-68	97
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2149	Microglia in the degenerating brain are capable of phagocytosis of beads and of apoptotic cells, but do not efficiently remove PrPSc, even upon LPS stimulation. <b>2010</b> , 58, 2017-30	77
2148	Identification of genes expressed by zebrafish oligodendrocytes using a differential microarray screen. <b>2010</b> , 239, 2041-7	25
2147	Low levels of citrin (SLC25A13) expression in adult mouse brain restricted to neuronal clusters. <b>2010</b> , 88, 1009-16	19
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2142	Axon-oligodendrocyte interactions during developmental myelination, demyelination and repair. <b>2010</b> , 114, 1243-60	76
2141	Focal adhesion kinase can play unique and opposing roles in regulating the morphology of differentiating oligodendrocytes. <b>2010</b> , 115, 269-82	31
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2114	The QKI-6 RNA binding protein regulates actin-interacting protein-1 mRNA stability during oligodendrocyte differentiation. <b>2010</b> , 21, 3029-40		25
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2104	Transcriptional profiling of hypothalamus during development of adiposity in genetically selected fat and lean chickens. <b>2010</b> , 42, 157-67		32
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2096	Glia as transmitter sources and sensors in health and disease. <b>2010</b> , 57, 359-66	40
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2082	S.17.03 Pharmacological therapies of affective disorders influencing circadian rhythms. <b>2010</b> , 20, S188-S189		
2081	S.17.04 Phase changes as correlates of clinical antidepressant response. <b>2010</b> , 20, S189		
2080	S.17.05 Can targeting circadian rhythm lead to better treatments for mood disorders?. <b>2010</b> , 20, S189		1
2079	Specification and morphogenesis of astrocytes. <b>2010</b> , 330, 774-8		254
2078	Regulation of oligodendrocyte differentiation and myelination. <b>2010</b> , 330, 779-82		446
2077	Current ideas on central chemoreception by neurons and glial cells in the retrotrapezoid nucleus. <b>2010</b> , 108, 1433-9		15
2076	Astrocytes and synaptic plasticity. <b>2010</b> , 16, 40-50		67
2075	The dissection of transcriptional modules regulated by various drugs of abuse in the mouse striatum. <b>2010</b> , 11, R48		111
2074	Animal Models for Retinal Diseases. <b>2010</b> ,		5
2073	Myelin matters: proteomic insights into white matter disorders. <b>2010</b> , 7, 159-64		15
2072	Bidirectional plasticity of calcium-permeable AMPA receptors in oligodendrocyte lineage cells. <b>2011</b> , 14, 1430-8		84
2071	Regulation of oligodendrocyte development and myelination by glucose and lactate. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 538-48	6.6	222
2070	A complex of nuclear factor I-X3 and STAT3 regulates astrocyte and glioma migration through the secreted glycoprotein YKL-40. <b>2011</b> , 286, 39893-903		52
2069	Searching for neuropathology: gliosis in schizophrenia. <b>2011</b> , 69, 134-9		77
2068	Astrocytes from familial and sporadic ALS patients are toxic to motor neurons. <b>2011</b> , 29, 824-8		573
2067	Pyramidal neurons are "neurogenic hubs" in the neurovascular coupling response to whisker stimulation. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 9836-47	6.6	128

2066	Rapid and robust generation of functional oligodendrocyte progenitor cells from epiblast stem cells. <b>2011</b> , 8, 957-62	61
2065	Morphology and properties of astrocytes. <b>2011</b> , 686, 69-100	35
2064	Dissecting mechanisms of myelinated axon formation using zebrafish. <b>2011</b> , 105, 25-62	45
2063	Modeling a complex disease: multiple sclerosis. <b>2011</b> , 110, 111-37	7
2062	Phagocytic clearance in neurodegeneration. <b>2011</b> , 178, 1416-28	84
2061	FMRP stalls ribosomal translocation on mRNAs linked to synaptic function and autism. <b>2011</b> , 146, 247-61	1413
2060	Mosaic analysis with double markers reveals tumor cell of origin in glioma. <b>2011</b> , 146, 209-21	461
2059	Molecular annotation of integrative feeding neural circuits. <b>2011</b> , 13, 222-32	19
2058	Brain energy metabolism: focus on astrocyte-neuron metabolic cooperation. <b>2011</b> , 14, 724-38	1245
2057	Myelin genes are downregulated in canine fucosidosis. <b>2011</b> , 1812, 1418-26	12
2056	Direct lineage conversions: unnatural but useful?. <b>2011</b> , 29, 892-907	215
2055	Expression profiling reveals differential gene induction underlying specific and non-specific memory for pheromones in mice. <b>2011</b> , 59, 787-803	3
2054	Combined anti-inflammatory effects of $\beta_2$ -adrenergic agonists and PDE4 inhibitors on astrocytes by upregulation of intracellular cAMP. <b>2011</b> , 59, 837-46	20
2053	Stabilising influence: integrins in regulation of synaptic plasticity. <b>2011</b> , 70, 24-9	51
2052	NG2 cells are uniformly distributed and NG2 is not required for barrel formation in the somatosensory cortex. <b>2011</b> , 46, 689-98	12
2051	Maximum parsimony analysis of gene expression profiles permits the reconstruction of developmental cell lineage trees. <b>2011</b> , 353, 440-7	4
2050	Astrocyte-neuron metabolic relationships: for better and for worse. <b>2011</b> , 34, 76-87	445
2049	Cholesterol metabolism in neurons and astrocytes. <b>2011</b> , 50, 357-71	268

2048	A transcriptomic atlas of mouse neocortical layers. <b>2011</b> , 71, 605-16	224
2047	Development of a method for the purification and culture of rodent astrocytes. <b>2011</b> , 71, 799-811	258
2046	Astrocyte proliferation following stroke in the mouse depends on distance from the infarct. <b>2011</b> , 6, e27881	85
2045	Differential and cooperative actions of Olig1 and Olig2 transcription factors on immature proliferating cells after contusive spinal cord injury. <b>2011</b> , 59, 1094-106	21
2044	A meta-analysis of microarray-based gene expression studies of olfactory bulb-derived olfactory ensheathing cells. <b>2011</b> , 229, 10-45	25
2043	Microarray screening for genes involved in oligodendrocyte differentiation in the zebrafish CNS. <b>2011</b> , 20, 85-91	10
2042	Astrocytes promote peripheral nerve injury-induced reactive synaptogenesis in the neonatal CNS. <b>2011</b> , 106, 2876-87	28
2041	Large-Scale Analysis of Gene Expression and Connectivity in the Rodent Brain: Insights through Data Integration. <b>2011</b> , 5, 12	27
2040	A quantitative comparison of cell-type-specific microarray gene expression profiling methods in the mouse brain. <b>2011</b> , 6, e16493	95
2039	Identification of a gene regulatory network necessary for the initiation of oligodendrocyte differentiation. <b>2011</b> , 6, e18088	76
2038	Ciliary neurotrophic factor induces genes associated with inflammation and gliosis in the retina: a gene profiling study of flow-sorted, Müller cells. <b>2011</b> , 6, e20326	41
2037	A systems level, functional genomics analysis of chronic epilepsy. <b>2011</b> , 6, e20763	55
2036	Genome-wide analysis of Müller glial differentiation reveals a requirement for Notch signaling in postmitotic cells to maintain the glial fate. <b>2011</b> , 6, e22817	89
2035	Adult spinal cord radial glia display a unique progenitor phenotype. <b>2011</b> , 6, e24538	33
2034	Drug transport and transporters. 90-102	
2033	Thyroid hormone transport in developing brain. <b>2011</b> , 18, 295-9	14
2032	The genetic signature of perineuronal oligodendrocytes reveals their unique phenotype. <b>2011</b> , 34, 1906-22	23
2031	Apolipoprotein D alters the early transcriptional response to oxidative stress in the adult cerebellum. <b>2011</b> , 117, 949-60	37

2030	The Rho kinase inhibitor Fasudil up-regulates astrocytic glutamate transport subsequent to actin remodelling in murine cultured astrocytes. <b>2011</b> , 163, 533-45	58	
2029	Molecular profiles of drinking alcohol to intoxication in C57BL/6J mice. <b>2011</b> , 35, 659-70	80	
2028	Synapses between NG2 glia and neurons. <b>2011</b> , 219, 2-7	45	
2027	Retinoid X receptor gamma signaling accelerates CNS remyelination. <b>2011</b> , 14, 45-53	373	
2026	The stem cell potential of glia: lessons from reactive gliosis. <b>2011</b> , 12, 88-104	394	
2025	Brain glutamine synthesis requires neuronal-born aspartate as amino donor for glial glutamate formation. <b>2011</b> , 31, 90-101	88	
2024	Transcriptomic analysis of autistic brain reveals convergent molecular pathology. <b>2011</b> , 474, 380-4	1281	
2023	Specification of transplantable astroglial subtypes from human pluripotent stem cells. <b>2011</b> , 29, 528-34	287	
2022	Bidirectional control of arteriole diameter by astrocytes. <b>2011</b> , 96, 393-9	59	
2021	Astrocyte chemoreceptors: mechanisms of H <sup>+</sup> sensing by astrocytes in the retrotrapezoid nucleus and their possible contribution to respiratory drive. <b>2011</b> , 96, 400-6	34	
2020	Astrocytic energy metabolism and glutamate formation--relevance for <sup>13</sup> C-NMR spectroscopy and importance of cytosolic/mitochondrial trafficking. <b>2011</b> , 29, 1319-29	57	
2019	Reactive astrocytes and Wnt/ $\beta$ -catenin signaling link nigrostriatal injury to repair in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine model of Parkinson's disease. <b>2011</b> , 41, 508-27	142	
2018	Glial cells physiologically modulate clock neurons and circadian behavior in a calcium-dependent manner. <b>2011</b> , 21, 625-34	112	
2017	Pathophysiology of translational regulation by microRNAs in multiple sclerosis. <b>2011</b> , 585, 3738-46	45	
2016	Ca(2+) sources for the exocytotic release of glutamate from astrocytes. <b>2011</b> , 1813, 984-91	117	
2015	Effects of chronic treatment with fluoxetine on receptor-stimulated increase of [Ca <sup>2+</sup> ] <sub>i</sub> in astrocytes mimic those of acute inhibition of TRPC1 channel activity. <b>2011</b> , 50, 42-53	30	
2014	Co-compartmentalization of the astroglial glutamate transporter, GLT-1, with glycolytic enzymes and mitochondria. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 18275-88	6.6	151
2013	FABP7 expression in normal and stab-injured brain cortex and its role in astrocyte proliferation. <b>2011</b> , 136, 501-13	49	



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2010	Gene expression in the rat brain: high similarity but unique differences between frontomedial-, temporal- and occipital cortex. <b>2011</b> , 12, 15	11
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2008	A Wnt1 regulated Frizzled-1/β-Catenin signaling pathway as a candidate regulatory circuit controlling mesencephalic dopaminergic neuron-astrocyte crosstalk: Therapeutical relevance for neuron survival and neuroprotection. <b>2011</b> , 6, 49	142
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2005	Functional genomics of the brain: uncovering networks in the CNS using a systems approach. <b>2011</b> , 3, 628-48	10
2004	Deficiency of the mitochondrial transporter of aspartate/glutamate aralar/AGC1 causes hypomyelination and neuronal defects unrelated to myelin deficits in mouse brain. <b>2011</b> , 89, 2008-17	29
2003	Molecular comparison of GLT1+ and ALDH1L1+ astrocytes in vivo in astroglial reporter mice. <b>2011</b> , 59, 200-7	164
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2001	NG2 cells are not a major source of reactive astrocytes after neocortical stab wound injury. <b>2011</b> , 59, 800-9	69
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1999	Eph receptors and ephrins in neuron-astrocyte communication at synapses. <b>2011</b> , 59, 1567-78	70
1998	Analyses of the spatiotemporal expression and subcellular localization of liprin-β proteins. <b>2011</b> , 519, 3019-39	40
1997	Blueprint of an ancestral neurosensory organ revealed in glial networks in human dental pulp. <b>2011</b> , 519, 3306-26	31
1996	Influence of rat substrain and growth conditions on the characteristics of primary cultures of adult rat spinal cord astrocytes. <b>2011</b> , 197, 118-27	35
1995	Efficient large core fiber-based detection for multi-channel two-photon fluorescence microscopy and spectral unmixing. <b>2011</b> , 198, 172-80	17

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1992	Transcription factor Lhx2 is necessary and sufficient to suppress astroglialogenesis and promote neurogenesis in the developing hippocampus. <b>2011</b> , 108, E265-74		69
1991	Distinct roles of deiodinases on the phenotype of Mct8 defect: a comparison of eight different mouse genotypes. <b>2011</b> , 152, 1180-91		62
1990	Olfactomedin 2: expression in the eye and interaction with other olfactomedin domain-containing proteins. <b>2011</b> , 52, 2584-92		12
1989	Developmental profiling of spiral ganglion neurons reveals insights into auditory circuit assembly. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 10903-18	6.6	114
1988	The extracellular matrix molecule tenascin C modulates expression levels and territories of key patterning genes during spinal cord astrocyte specification. <b>2011</b> , 138, 5321-31		57
1987	Lack of action of exogenously administered T3 on the fetal rat brain despite expression of the monocarboxylate transporter 8. <b>2011</b> , 152, 1713-21		63
1986	Defining cell populations with single-cell gene expression profiling: correlations and identification of astrocyte subpopulations. <b>2011</b> , 39, e24		82
1985	Inhibitors of Glioma Growth that Reveal the Tumour to the Immune System. <b>2011</b> , 5, 265-314		27
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1981	Analysis of alternative splicing associated with aging and neurodegeneration in the human brain. <b>2011</b> , 21, 1572-82		149
1980	Astrocytes are an early target in osmotic demyelination syndrome. <b>2011</b> , 22, 1834-45		68
1979	Thyroid hormone and the neuroglia: both source and target. <b>2011</b> , 2011, 215718		42
1978	Dysregulation of astrocyte-motoneuron cross-talk in mutant superoxide dismutase 1-related amyotrophic lateral sclerosis. <b>2011</b> , 134, 2627-41		127
1977	Epigenetic Silencing of ALDH1L1, a Metabolic Regulator of Cellular Proliferation, in Cancers. <b>2011</b> , 2, 130-9		40

1976	MicroRNAs in oligodendrocyte and Schwann cell differentiation. <b>2011</b> , 33, 14-20		47
1975	A complex between contactin-1 and the protein tyrosine phosphatase PTPRZ controls the development of oligodendrocyte precursor cells. <b>2011</b> , 108, 17498-503		66
1974	Decrease in calcium concentration triggers neuronal retinoic acid synthesis during homeostatic synaptic plasticity. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 17764-71	6.6	77
1973	Control of excitatory CNS synaptogenesis by astrocyte-secreted proteins Hevin and SPARC. <b>2011</b> , 108, E440-9		348
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1971	Role of the glyoxalase system in astrocyte-mediated neuroprotection. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 18338-52	6.6	82
1970	Deletion of astroglial Dicer causes non-cell-autonomous neuronal dysfunction and degeneration. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 8306-19	6.6	135
1969	Disease- and age-related changes in histone acetylation at gene promoters in psychiatric disorders. <b>2011</b> , 1, e64		97
1968	Same players, different game: AMPA receptor regulation in oligodendrocyte progenitors. <b>2011</b> , 14, 1358-60		6
1967	CD140a identifies a population of highly myelinogenic, migration-competent and efficiently engrafting human oligodendrocyte progenitor cells. <b>2011</b> , 29, 934-41		144
1966	Cell proliferation and interleukin-6-type cytokine signaling are implicated by gene expression responses in early optic nerve head injury in rat glaucoma. <b>2011</b> , 52, 504-18		94
1965	Towards resolving the transcription factor network controlling myelin gene expression. <b>2011</b> , 39, 7974-91		17
1964	A developmental taxonomy of glioblastoma defined and maintained by MicroRNAs. <b>2011</b> , 71, 3387-99		154
1963	The RE1 binding protein REST regulates oligodendrocyte differentiation. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 3470-83	6.6	26
1962	The glial regenerative response to central nervous system injury is enabled by pros-notch and pros-NFB feedback. <b>2011</b> , 9, e1001133		47
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1960	Genetic mouse models for Parkinson's disease display severe pathology in glial cell mitochondria. <b>2011</b> , 20, 1197-211		64
1959	Astrocyte and glutamate markers in the superficial, deep, and white matter layers of the anterior cingulate gyrus in schizophrenia. <b>2011</b> , 36, 1171-7		68

1958	The proteome of mouse brain microvessel membranes and basal lamina. <b>2011</b> , 31, 2267-81		37
1957	Distinct neurogenomic states in basal ganglia subregions relate differently to singing behavior in songbirds. <b>2012</b> , 8, e1002773		22
1956	Networks of neuronal genes affected by common and rare variants in autism spectrum disorders. <b>2012</b> , 8, e1002556		114
1955	Determinants of brain cell metabolic phenotypes and energy substrate utilization unraveled with a modeling approach. <b>2012</b> , 8, e1002686		14
1954	Localizing genes to cerebellar layers by classifying ISH images. <b>2012</b> , 8, e1002790		15
1953	Axon degeneration: molecular mechanisms of a self-destruction pathway. <b>2012</b> , 196, 7-18		297
1952	Glucocorticoid treatment of astrocytes results in temporally dynamic transcriptome regulation and astrocyte-enriched mRNA changes in vitro. <b>2012</b> , 44, 1188-200		32
1951	Nuclear factor <b>B</b> activation impairs ependymal ciliogenesis and links neuroinflammation to hydrocephalus formation. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 11511-23	6.6	47
1950	Transposon mutagenesis identifies genes that transform neural stem cells into glioma-initiating cells. <b>2012</b> , 109, E2998-3007		52
1949	Quantitative biology of single neurons. <b>2012</b> , 9, 3165-83		15
1948	Disruption of NMDA receptors in oligodendroglial lineage cells does not alter their susceptibility to experimental autoimmune encephalomyelitis or their normal development. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 639-45	6.6	67
1947	Astrocytic 5-HT(2B) receptor as in vitro and in vivo target of SSRIs. <b>2012</b> , 7, 243-53		15
1946	Threshold-independent meta-analysis of Alzheimer's disease transcriptomes shows progressive changes in hippocampal functions, epigenetics and microRNA regulation. <b>2012</b> , 9, 425-35		28
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1944	Neuronal adenosine release, and not astrocytic ATP release, mediates feedback inhibition of excitatory activity. <b>2012</b> , 109, 6265-70		204
1943	A critical cell-intrinsic role for serum response factor in glial specification in the CNS. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 8012-23	6.6	16
1942	Teneurin-4 is a novel regulator of oligodendrocyte differentiation and myelination of small-diameter axons in the CNS. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 11586-99	6.6	55
1941	Endothelial cell-derived nitric oxide enhances aerobic glycolysis in astrocytes via HIF-1 $\beta$ -mediated target gene activation. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 9727-35	6.6	75

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1938	Essential roles of the histone methyltransferase ESET in the epigenetic control of neural progenitor cells during development. <b>2012</b> , 139, 3806-16		91
1937	Myelin gene regulatory factor is required for maintenance of myelin and mature oligodendrocyte identity in the adult CNS. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 12528-42	6.6	137
1936	Genomic analysis of reactive astrogliosis. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 6391-410	6.6	1254
1935	Regulated temporal-spatial astrocyte precursor cell proliferation involves BRAF signalling in mammalian spinal cord. <b>2012</b> , 139, 2477-87		90
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1933	Combining Neuroinformatics Databases for Multi-Level Analysis of Brain Disorders. <b>2012</b> , 4, 1-8		
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1929	Cytosolic Ca <sup>2+</sup> regulates the energization of isolated brain mitochondria by formation of pyruvate through the malate-aspartate shuttle. <b>2012</b> , 443, 747-55		57
1928	Genomic estimates of aneuploid content in glioblastoma multiforme and improved classification. <b>2012</b> , 18, 5595-605		26
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1925	Targeting the Role of Astrocytes in the Progression of Alzheimers Disease. <b>2012</b> , 7, 20-27		5
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1918	Aralar mRNA and protein levels in neurons and astrocytes freshly isolated from young and adult mouse brain and in maturing cultured astrocytes. <b>2012</b> , 61, 1325-32		40
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1916	Inflammatory mediators alter the astrocyte transcriptome and calcium signaling elicited by multiple G-protein-coupled receptors. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 14489-510	6.6	144
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1908	Birth of neural progenitors during the embryonic period of sexual differentiation in the Japanese quail brain. <b>2012</b> , 520, 4226-53		14
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1905	DNA methylation in schizophrenia: progress and challenges of epigenetic studies. <b>2012</b> , 4, 96		59

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1903	Computational neuroanatomy and gene expression: Optimal sets of marker genes for brain regions. <b>2012</b> ,	3
1902	An astrocyte TRP switch for inhibition. <b>2011</b> , 15, 3-4	9
1901	MEGF10 and MEGF11 mediate homotypic interactions required for mosaic spacing of retinal neurons. <b>2012</b> , 483, 465-9	133
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1888	Rbfox proteins regulate alternative splicing of neuronal sodium channel SCN8A. <b>2012</b> , 49, 120-6	32
1887	The T3-induced gene KLF9 regulates oligodendrocyte differentiation and myelin regeneration. <b>2012</b> , 50, 45-57	102

1886	Contributions in astrocytes of SMIT1/2 and HMIT to myo-inositol uptake at different concentrations and pH. <b>2012</b> , 61, 187-94	43
1885	Neuronal cadherin (NCAD) increases sensory neurite formation and outgrowth on astrocytes. <b>2012</b> , 522, 108-12	6
1884	Genetically engineered mouse models of diffuse gliomas. <b>2012</b> , 88, 72-9	18
1883	Large-scale cellular-resolution gene profiling in human neocortex reveals species-specific molecular signatures. <b>2012</b> , 149, 483-96	241
1882	Metabolic communication between astrocytes and neurons via bicarbonate-responsive soluble adenylyl cyclase. <b>2012</b> , 75, 1094-104	194
1881	Major histocompatibility complex class I proteins in brain development and plasticity. <b>2012</b> , 35, 660-70	105
1880	Histone deacetylase activity is required for human oligodendrocyte progenitor differentiation. <b>2012</b> , 60, 1944-53	56
1879	Metabolomic profiling reveals a role for CPT1c in neuronal oxidative metabolism. <b>2012</b> , 13, 23	40
1878	Distinct and overlapping gene regulatory networks in BMP- and HDAC-controlled cell fate determination in the embryonic forebrain. <b>2012</b> , 13, 298	9
1877	A REST derived gene signature stratifies glioblastomas into chemotherapy resistant and responsive disease. <b>2012</b> , 13, 686	13
1876	Human cerebral cortex development from pluripotent stem cells to functional excitatory synapses. <b>2012</b> , 15, 477-86, S1	559
1875	Neuromodulation by extracellular ATP and P2X receptors in the CNS. <b>2012</b> , 76, 51-69	238
1874	Mesenchymal transition and PDGFRA amplification/mutation are key distinct oncogenic events in pediatric diffuse intrinsic pontine gliomas. <b>2012</b> , 7, e30313	171
1873	Systematic approaches to central nervous system myelin. <b>2012</b> , 69, 2879-94	69
1872	Sweet sixteen for ANLS. <b>2012</b> , 32, 1152-66	482
1871	The role of glial cells in synapse elimination. <b>2012</b> , 22, 438-45	59
1870	Under pressure: cellular and molecular responses during glaucoma, a common neurodegeneration with axonopathy. <b>2012</b> , 35, 153-79	218
1869	TRPA1 channels regulate astrocyte resting calcium and inhibitory synapse efficacy through GAT-3. <b>2011</b> , 15, 70-80	313



1868	Primary cultures of astrocytes: their value in understanding astrocytes in health and disease. <b>2012</b> , 37, 2569-88		109
1867	Chronic treatment with anti-bipolar drugs causes intracellular alkalinization in astrocytes, altering their functions. <b>2012</b> , 37, 2524-40		20
1866	Norepinephrine: a neuromodulator that boosts the function of multiple cell types to optimize CNS performance. <b>2012</b> , 37, 2496-512		205
1865	Cell population-specific expression analysis of human cerebellum. <b>2012</b> , 13, 610		31
1864	Gene coexpression networks in human brain identify epigenetic modifications in alcohol dependence. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 1884-97	6.6	294
1863	Distinct expression/function of potassium and chloride channels contributes to the diverse volume regulation in cortical astrocytes of GFAP/EGFP mice. <b>2012</b> , 7, e29725		42
1862	Hyccin, the molecule mutated in the leukodystrophy hypomyelination and congenital cataract (HCC), is a neuronal protein. <b>2012</b> , 7, e32180		17
1861	Dysregulation of gene expression in a lysosomal storage disease varies between brain regions implicating unexpected mechanisms of neuropathology. <b>2012</b> , 7, e32419		35
1860	Glutamine acts as a neuroprotectant against DNA damage, beta-amyloid and H <sub>2</sub> O <sub>2</sub> -induced stress. <b>2012</b> , 7, e33177		49
1859	Polydendrocytes display large lineage plasticity following focal cerebral ischemia. <b>2012</b> , 7, e36816		34
1858	Measuring the maturity of the fast-spiking interneuron transcriptional program in autism, schizophrenia, and bipolar disorder. <b>2012</b> , 7, e41215		49
1857	miRNA regulation of gene expression: a predictive bioinformatics analysis in the postnatally developing monkey hippocampus. <b>2012</b> , 7, e43435		12
1856	Transcriptome tomography for brain analysis in the web-accessible anatomical space. <b>2012</b> , 7, e45373		15
1855	Analyzing gene expression from whole tissue vs. different cell types reveals the central role of neurons in predicting severity of Alzheimer's disease. <b>2012</b> , 7, e45879		5
1854	A gene co-expression network in whole blood of schizophrenia patients is independent of antipsychotic-use and enriched for brain-expressed genes. <b>2012</b> , 7, e39498		101
1853	GFAP isoforms in adult mouse brain with a focus on neurogenic astrocytes and reactive astrogliosis in mouse models of Alzheimer disease. <b>2012</b> , 7, e42823		187
1852	Calcium Signaling and Gliotransmission in Normal vs. Reactive Astrocytes. <b>2012</b> , 3, 139		106
1851	Development of the "Three-step MACS": a novel strategy for isolating rare cell populations in the absence of known cell surface markers from complex animal tissue. <b>2012</b> , 23, 69-77		17

1850	Mean Expression of the X-Chromosome is Associated with Neuronal Density. <b>2012</b> , 6, 161	9
1849	The local transcriptome in the synaptic neuropil revealed by deep sequencing and high-resolution imaging. <b>2012</b> , 74, 453-66	485
1848	The cellular origin for malignant glioma and prospects for clinical advancements. <b>2012</b> , 12, 383-94	113
1847	Blood-brain barrier permeability is increased after acute adult stroke but not neonatal stroke in the rat. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 9588-600	6.6 159
1846	Regional astrocyte allocation regulates CNS synaptogenesis and repair. <b>2012</b> , 337, 358-62	341
1845	Gliotransmission and the tripartite synapse. <b>2012</b> , 970, 307-31	134
1844	Astrocytes and disease: a neurodevelopmental perspective. <b>2012</b> , 26, 891-907	447
1843	Peptidomic analyses of mouse astrocytic cell lines and rat primary cultured astrocytes. <b>2012</b> , 11, 3965-73	23
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1841	Myosin II is a negative regulator of oligodendrocyte morphological differentiation. <b>2012</b> , 90, 1547-56	34
1840	Genetic approaches to study glial cells in the rodent brain. <b>2012</b> , 60, 681-701	35
1839	Aging of myelinating glial cells predominantly affects lipid metabolism and immune response pathways. <b>2012</b> , 60, 751-60	23
1838	Isolation and characterization of living primary astroglial cells using the new GLAST-specific monoclonal antibody ACSA-1. <b>2012</b> , 60, 894-907	48
1837	The renal v-ATPase a4 subunit is expressed in specific subtypes of human gliomas. <b>2012</b> , 60, 1004-12	18
1836	P53 is required for the developmental restriction in Müller glial proliferation in mouse retina. <b>2012</b> , 60, 1579-89	38
1835	Bicarbonate efflux via GABA(A) receptors depolarizes membrane potential and inhibits two-pore domain potassium channels of astrocytes in rat hippocampal slices. <b>2012</b> , 60, 1761-72	24
1834	Astrocyte glypicans 4 and 6 promote formation of excitatory synapses via GluA1 AMPA receptors. <b>2012</b> , 486, 410-4	423
1833	Negative regulation of glial engulfment activity by Draper terminates glial responses to axon injury. <b>2012</b> , 15, 722-30	57

1832	The complement system: an unexpected role in synaptic pruning during development and disease. <b>2012</b> , 35, 369-89	657
1831	System approaches reveal the molecular networks involved in neural stem cell differentiation. <b>2012</b> , 3, 213-24	8
1830	A modified in vitro method to obtain pure astrocyte cultures induced from mouse hippocampal neural stem cells using clonal expansion. <b>2012</b> , 32, 373-80	2
1829	P2Y12 receptor expression is a critical determinant of functional responsiveness to ATX's MORFO domain. <b>2012</b> , 8, 181-90	15
1828	Selection for stress-induced analgesia affects the mouse hippocampal transcriptome. <b>2012</b> , 47, 101-12	7
1827	Temporal distribution of Hig-1 (hypoxia-induced gene 1) mRNA and protein in rat spinal cord: changes during postnatal life. <b>2012</b> , 47, 666-73	1
1826	Plasticity of the myelination genomic fabric. <b>2012</b> , 287, 237-46	14
1825	An astrocyte-specific enhancer of the aquaporin-4 gene functions through a consensus sequence of POU transcription factors in concert with multiple upstream elements. <b>2012</b> , 120, 899-912	8
1824	Protracted abstinence from distinct drugs of abuse shows regulation of a common gene network. <b>2012</b> , 17, 1-12	40
1823	Systems cancer medicine: towards realization of predictive, preventive, personalized and participatory (P4) medicine. <b>2012</b> , 271, 111-21	147
1822	G protein-coupled receptor signalling in astrocytes in health and disease: a focus on metabotropic glutamate receptors. <b>2012</b> , 84, 249-59	39
1821	Expression and localization of myosin-1d in the developing nervous system. <b>2012</b> , 1440, 9-22	19
1820	The innate immune system in demyelinating disease. <b>2012</b> , 248, 170-87	124
1819	A new indirect co-culture set up of mouse hippocampal neurons and cortical astrocytes on microelectrode arrays. <b>2012</b> , 204, 262-72	30
1818	Does conventional anti-bipolar and antidepressant drug therapy reduce NMDA-mediated neuronal excitation by downregulating astrocytic GluK2 function?. <b>2012</b> , 100, 712-25	17
1817	Galactolipid deficiency in the early pathogenesis of neuronal ceroid lipofuscinosis model Cln8mnd : implications to delayed myelination and oligodendrocyte maturation. <b>2012</b> , 38, 471-86	17
1816	GFAP-independent inflammatory competence and trophic functions of astrocytes generated from murine embryonic stem cells. <b>2012</b> , 60, 218-28	30
1815	VGLUT1 is localized in astrocytic processes in several brain regions. <b>2012</b> , 60, 229-38	44

1814	Transcriptomic profiling of astrocytes treated with the Rho kinase inhibitor fasudil reveals cytoskeletal and pro-survival responses. <b>2012</b> , 227, 1199-211	41
1813	A new monoclonal antibody, 4F2, specific for the oligodendroglial cell lineage, recognizes ATP-dependent RNA helicase Ddx54: possible association with myelin basic protein. <b>2012</b> , 90, 48-59	9
1812	Changes in lipid-sensitive two-pore domain potassium channel TREK-1 expression and its involvement in astrogliosis following cerebral ischemia in rats. <b>2012</b> , 46, 384-92	30
1811	Genome-wide expression profiling of schizophrenia using a large combined cohort. <b>2013</b> , 18, 215-25	75
1810	MeCP2 modulates gene expression pathways in astrocytes. <b>2013</b> , 4, 3	67
1809	Cell-specific mRNA alterations in Na <sup>+</sup> , K <sup>+</sup> -ATPase $\alpha$ and $\beta$ isoforms and FXYD in mice treated chronically with carbamazepine, an anti-bipolar drug. <b>2013</b> , 38, 834-41	28
1808	Bovine brain myelin glycerophosphocholine choline phosphodiesterase is an alkaline lysosphingomyelinase of the eNPP-family, regulated by lysosomal sorting. <b>2013</b> , 38, 300-10	9
1807	A phenotypic change but not proliferation underlies glial responses in Alzheimer disease. <b>2013</b> , 182, 2332-44	102
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1805	The Cytoskeleton. <b>2013</b> ,	3
1804	A smarter mouse with human astrocytes. <b>2013</b> , 35, 876-80	12
1803	Aldh1L1 is expressed by postnatal neural stem cells in vivo. <b>2013</b> , 61, 1533-41	45
1802	Systems analysis of human brain gene expression: mechanisms for HIV-associated neurocognitive impairment and common pathways with Alzheimer's disease. <b>2013</b> , 6, 4	50
1801	Requirement of glycogenolysis for uptake of increased extracellular K <sup>+</sup> in astrocytes: potential implications for K <sup>+</sup> homeostasis and glycogen usage in brain. <b>2013</b> , 38, 472-85	97
1800	Glial scar borders are formed by newly proliferated, elongated astrocytes that interact to corral inflammatory and fibrotic cells via STAT3-dependent mechanisms after spinal cord injury. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 12870-86	6.6 457
1799	Computational neuroanatomy and co-expression of genes in the adult mouse brain, analysis tools for the Allen Brain Atlas. <b>2013</b> , 1, 91-100	9
1798	Culture and differentiation of rat neural stem/progenitor cells in a three-dimensional collagen scaffold. <b>2013</b> , 170, 406-19	28
1797	Effects of chronic stress on prefrontal cortex transcriptome in mice displaying different genetic backgrounds. <b>2013</b> , 50, 33-57	38

1796	Binding and repressive activities of apolipoprotein E3 and E4 isoforms on the human ApoD promoter. <b>2013</b> , 48, 669-80		11
1795	Astrocyte plasticity revealed by adaptations to severe proteotoxic stress. <b>2013</b> , 352, 427-43		20
1794	Regulation of the timing of oligodendrocyte differentiation: mechanisms and perspectives. <b>2013</b> , 29, 155-64		38
1793	Polydendrocytes in development and myelin repair. <b>2013</b> , 29, 165-76		15
1792	Dicer is required for neural stem cell multipotency and lineage progression during cerebral cortex development. <b>2013</b> , 8, 14		36
1791	Amyloid- $\beta$ -induced astrocytic phagocytosis is mediated by CD36, CD47 and RAGE. <b>2013</b> , 8, 301-11		93
1790	Effects of sleep and wake on oligodendrocytes and their precursors. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 14288-300	6.6	133
1789	The neuron identity problem: form meets function. <b>2013</b> , 80, 602-12		72
1788	Cortical beta amyloid protein triggers an immune response, but no synaptic changes in the APPswe/PS1dE9 Alzheimer's disease mouse model. <b>2013</b> , 34, 1328-42		43
1787	Phagocytic glial cells: sculpting synaptic circuits in the developing nervous system. <b>2013</b> , 23, 1034-40		120
1786	The impact of placental malaria on neurodevelopment of exposed infants: a role for the complement system?. <b>2013</b> , 29, 213-9		17
1785	Cell cycle and lineage progression of neural progenitors in the ventricular-subventricular zones of adult mice. <b>2013</b> , 110, E1045-54		170
1784	Mechanisms for L-channel-mediated increase in $[Ca^{2+}]_i$ and its reduction by anti-bipolar drugs in cultured astrocytes combined with its mRNA expression in freshly isolated cells support the importance of astrocytic L-channels. <b>2013</b> , 54, 335-42		38
1783	Global transcriptional and translational repression in human-embryonic-stem-cell-derived Rett syndrome neurons. <b>2013</b> , 13, 446-58		217
1782	Hierarchical mechanisms for direct reprogramming of fibroblasts to neurons. <b>2013</b> , 155, 621-35		403
1781	MicroRNA-23a promotes myelination in the central nervous system. <b>2013</b> , 110, 17468-73		81
1780	Astrocyte form and function in the developing central nervous system. <b>2013</b> , 20, 230-5		32
1779	Evolving concepts of gliogenesis: a look way back and ahead to the next 25 years. <b>2013</b> , 80, 613-23		114

1778	Astrocytes mediate synapse elimination through MEGF10 and MERTK pathways. <b>2013</b> , 504, 394-400	690
1777	Purification and culture of astrocytes. <b>2013</b> , 2013, 485-7	5
1776	Distribution of transmembrane AMPA receptor regulatory protein (TARP) isoforms in the rat spinal cord. <b>2013</b> , 248, 180-93	4
1775	Genetically encoded calcium indicators and astrocyte calcium microdomains. <b>2013</b> , 19, 274-91	46
1774	Neuronal exosomal miRNA-dependent translational regulation of astroglial glutamate transporter GLT1. <b>2013</b> , 288, 7105-16	249
1773	Glutamate biosensor imaging reveals dysregulation of glutamatergic pathways in a model of developmental cortical malformation. <b>2013</b> , 49, 232-46	16
1772	Changes in gene expression within the ventral tegmental area following repeated excessive binge-like alcohol drinking by alcohol-preferring (P) rats. <b>2013</b> , 47, 367-80	35
1771	Meta-analysis of gene coexpression networks in the post-mortem prefrontal cortex of patients with schizophrenia and unaffected controls. <b>2013</b> , 14, 105	40
1770	Novel drug-regulated transcriptional networks in brain reveal pharmacological properties of psychotropic drugs. <b>2013</b> , 14, 606	28
1769	Developmental maturation of astrocytes and pathogenesis of neurodevelopmental disorders. <b>2013</b> , 5, 22	61
1768	Stress susceptibility-specific phenotype associated with different hippocampal transcriptomic responses to chronic tricyclic antidepressant treatment in mice. <b>2013</b> , 14, 144	21
1767	Differential expression and regulatory roles of FABP5 and FABP7 in oligodendrocyte lineage cells. <b>2013</b> , 354, 683-95	21
1766	White matter from fibroblasts. <b>2013</b> , 31, 412-3	8
1765	Profiling the iron, copper and zinc content in primary neuron and astrocyte cultures by rapid online quantitative size exclusion chromatography-inductively coupled plasma-mass spectrometry. <b>2013</b> , 5, 1656-62	35
1764	Plasticity of melanoma in vivo: murine lesions resulting from Trp53, but not Cdk4 or Arf deregulation, display neural transdifferentiation. <b>2013</b> , 26, 731-4	8
1763	Transcription factors expressed in embryonic and adult olfactory bulb neural stem cells reveal distinct proliferation, differentiation and epigenetic control. <b>2013</b> , 101, 12-9	11
1762	Mutation of a NCKX eliminates glial microdomain calcium oscillations and enhances seizure susceptibility. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 1169-78	6.6 74
1761	Glutamate-dependent neuroglial calcium signaling differs between young and adult brain. <b>2013</b> , 339, 197-200	370

1760	Microglia: scapegoat, saboteur, or something else?. <b>2013</b> , 339, 156-61	585
1759	Regional astrogliosis in the mouse hypothalamus in response to obesity. <b>2013</b> , 521, 1322-33	106
1758	Astrocyte decrease in the subgenual cingulate and callosal genu in schizophrenia. <b>2013</b> , 263, 41-52	85
1757	Glia and epilepsy: excitability and inflammation. <b>2013</b> , 36, 174-84	461
1756	Bioactive 3D cell culture system minimizes cellular stress and maintains the in vivo-like morphological complexity of astroglial cells. <b>2013</b> , 61, 432-40	89
1755	Human stem cell-derived spinal cord astrocytes with defined mature or reactive phenotypes. <b>2013</b> , 4, 1035-1048	132
1754	DNA damage in mammalian neural stem cells leads to astrocytic differentiation mediated by BMP2 signaling through JAK-STAT. <b>2013</b> , 1, 123-38	62
1753	Mechanisms of astrocytogenesis in the mammalian brain. <b>2013</b> , 23, 921-7	67
1752	Stress-response pathways are altered in the hippocampus of chronic alcoholics. <b>2013</b> , 47, 505-15	67
1751	Accelerated experience-dependent pruning of cortical synapses in ephrin-A2 knockout mice. <b>2013</b> , 80, 64-71	42
1750	Global epigenomic reconfiguration during mammalian brain development. <b>2013</b> , 341, 1237905	1283
1749	Increased expression of glial fibrillary acidic protein in prefrontal cortex in psychotic illness. <b>2013</b> , 150, 252-7	56
1748	Simplified protocol for isolation of multipotential NG2 cells from postnatal mouse. <b>2013</b> , 219, 252-61	3
1747	Adult olfactory sphere cells are a source of oligodendrocyte and Schwann cell progenitors. <b>2013</b> , 11, 1178-90	16
1746	Localization of type-III sodium-dependent phosphate transporter 2 in the mouse brain. <b>2013</b> , 1531, 75-83	31
1745	Polysulfides are possible H <sub>2</sub> S-derived signaling molecules in rat brain. <b>2013</b> , 27, 2451-7	255
1744	Storage and uptake of D-serine into astrocytic synaptic-like vesicles specify gliotransmission. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 3413-23	6.6 125
1743	Neuroimmune Modulation of Synaptic Function. <b>2013</b> , 65-94	1

1742 NG2-Glial Cells. **2013**, 321-341

1741	AGC1-malate aspartate shuttle activity is critical for dopamine handling in the nigrostriatal pathway. <b>2013</b> , 124, 347-62		13
1740	Oligodendroglial expression of TrkB independently regulates myelination and progenitor cell proliferation. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 4947-57	6.6	96
1739	A distinct reactive oxygen species profile confers chemoresistance in glioma-propagating cells and associates with patient survival outcome. <b>2013</b> , 19, 2261-79		19
1738	Antidepressants act directly on astrocytes: evidences and functional consequences. <b>2013</b> , 23, 171-85		87
1737	Transcriptome analysis of Inbred Long Sleep and Inbred Short Sleep mice. <b>2013</b> , 12, 263-74		12
1736	Attenuating astrocyte activation accelerates plaque pathogenesis in APP/PS1 mice. <b>2013</b> , 27, 187-98		205
1735	Isolation and culture of mouse cortical astrocytes. <b>2013</b> ,		180
1734	Spreading depression triggers headache by activating neuronal Panx1 channels. <b>2013</b> , 339, 1092-5		318
1733	Intricate interplay between astrocytes and motor neurons in ALS. <b>2013</b> , 110, E756-65		96
1732	Lack of evidence for vesicular glutamate transporter expression in mouse astrocytes. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 4434-55	6.6	63
1731	Efficient generation of astrocytes from human pluripotent stem cells in defined conditions. <b>2013</b> , 31, 941-52		180
1730	Transcription factor-mediated reprogramming of fibroblasts to expandable, myelinogenic oligodendrocyte progenitor cells. <b>2013</b> , 31, 426-33		193
1729	Generation of oligodendroglial cells by direct lineage conversion. <b>2013</b> , 31, 434-9		228
1728	Integration of genome-wide approaches identifies lncRNAs of adult neural stem cells and their progeny in vivo. <b>2013</b> , 12, 616-28		193
1727	Emerging roles of astrocytes in neural circuit development. <b>2013</b> , 14, 311-21		601
1726	The antiaging protein Klotho enhances oligodendrocyte maturation and myelination of the CNS. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 1927-39	6.6	108
1725	Formaldehyde metabolism and formaldehyde-induced stimulation of lactate production and glutathione export in cultured neurons. <b>2013</b> , 125, 260-72		34



1724	Live imaging of astrocyte responses to acute injury reveals selective juxtavascular proliferation. <b>2013</b> , 16, 580-6		271
1723	An inhibitor of mutant IDH1 delays growth and promotes differentiation of glioma cells. <b>2013</b> , 340, 626-30		855
1722	Boning up on glypicans--opportunities for new insights into bone biology. <b>2013</b> , 31, 91-114		24
1721	Primary hippocampal neurons, which lack four crucial extracellular matrix molecules, display abnormalities of synaptic structure and function and severe deficits in perineuronal net formation. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 7742-55	6.6	91
1720	Three mechanisms assemble central nervous system nodes of Ranvier. <b>2013</b> , 78, 469-82		113
1719	Metabolic signaling by lactate in the brain. <b>2013</b> , 36, 396-404		209
1718	Endowing cells with logic and memory. <b>2013</b> , 31, 413-5		8
1717	TRPA1 channels are regulators of astrocyte basal calcium levels and long-term potentiation via constitutive D-serine release. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 10143-53	6.6	209
1716	Neuron enriched nuclear proteome isolated from human brain. <b>2013</b> , 12, 3193-206		52
1715	What do we know about the transient receptor potential vanilloid 2 (TRPV2) ion channel?. <b>2013</b> , 280, 5471-87		105
1714	Astrocyte Differentiation from Oligodendrocyte Precursors. <b>2013</b> , 41-60		
1713	In vivo RNAi screen for BMI1 targets identifies TGF- $\beta$ /BMP-ER stress pathways as key regulators of neural- and malignant glioma-stem cell homeostasis. <b>2013</b> , 23, 660-76		136
1712	Coordinated control of oligodendrocyte development by extrinsic and intrinsic signaling cues. <b>2013</b> , 29, 129-43		63
1711	Pathogenic disruption of DISC1-serine racemase binding elicits schizophrenia-like behavior via D-serine depletion. <b>2013</b> , 18, 557-67		118
1710	CD133/CD140a-based isolation of distinct human multipotent neural progenitor cells and oligodendrocyte progenitor cells. <b>2013</b> , 22, 2121-31		33
1709	Loss of branched O-mannosyl glycans in astrocytes accelerates remyelination. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 10037-47	6.6	56
1708	Inhibition of DNA methyltransferases and histone deacetylases induces astrocytic differentiation of neural progenitors. <b>2013</b> , 11, 574-86		20
1707	Electrospun silk fibroin nanofibers in different diameters support neurite outgrowth and promote astrocyte migration. <b>2013</b> , 101, 2667-78		59

1706	Selection for drinking in the dark alters brain gene coexpression networks. <b>2013</b> , 37, 1295-303		58
1705	Oligodendrocyte precursor cells are accurate sensors of local K <sup>+</sup> in mature gray matter. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 2432-42	6.6	63
1704	Phenotype, differentiation, and function differ in rat and mouse neocortical astrocytes cultured under the same conditions. <b>2013</b> , 212, 156-64		15
1703	Formaldehyde in brain: an overlooked player in neurodegeneration?. <b>2013</b> , 127, 7-21		137
1702	Combining small-volume metabolomic and transcriptomic approaches for assessing brain chemistry. <b>2013</b> , 85, 3136-43		24
1701	Gene expression within the extended amygdala of 5 pairs of rat lines selectively bred for high or low ethanol consumption. <b>2013</b> , 47, 517-29		32
1700	Depression and Alzheimer's disease: novel postmortem brain studies reveal a possible common mechanism. <b>2013</b> , 37, 611-21		12
1699	Purification and culture of oligodendrocyte lineage cells. <b>2013</b> , 2013, 810-4		16
1698	Cooperativity between MAPK and PI3K signaling activation is required for glioblastoma pathogenesis. <b>2013</b> , 15, 1317-29		39
1697	Transgenic analysis of GFAP promoter elements. <b>2013</b> , 61, 1488-99		31
1696	Expression of nucleoside transporter in freshly isolated neurons and astrocytes from mouse brain. <b>2013</b> , 38, 2351-8		30
1695	Uncoupling of neuroinflammation from axonal degeneration in mice lacking the myelin protein tetraspanin-2. <b>2013</b> , 61, 1832-47		36
1694	Targeting of vasoactive intestinal peptide receptor 2, VPAC2, a secretin family G-protein coupled receptor, to primary cilia. <b>2013</b> , 2, 686-94		15
1693	Involvement of the Notch pathway in terminal astrocytic differentiation: role of PKA. <b>2013</b> , 5, e00130		15
1692	Astrocytes reassessment - an evolving concept part one: embryology, biology, morphology and reactivity. <b>2013</b> , 1, 18		10
1691	Mechanisms of Astrocyte Development. <b>2013</b> , 723-742		1
1690	MYRF is a membrane-associated transcription factor that autoproteolytically cleaves to directly activate myelin genes. <b>2013</b> , 11, e1001625		143
1689	Neuregulin and BDNF induce a switch to NMDA receptor-dependent myelination by oligodendrocytes. <b>2013</b> , 11, e1001743		219

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1687	NDRG1 functions in LDL receptor trafficking by regulating endosomal recycling and degradation. <b>2013</b> , 126, 3961-71	50
1686	Methodological limitations in determining astrocytic gene expression. <b>2013</b> , 4, 176	14
1685	Neurotransmitter-triggered transfer of exosomes mediates oligodendrocyte-neuron communication. <b>2013</b> , 11, e1001604	503
1684	GABA and Glutamate Transporters in Brain. <b>2013</b> , 4, 165	216
1683	Unique genome-wide map of TCF4 and STAT3 targets using CHIP-seq reveals their association with new molecular subtypes of glioblastoma. <b>2013</b> , 15, 279-89	38
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1393	From trans to cis: transcriptional regulatory networks in neocortical development. <b>2015</b> , 31, 77-87	36
1392	Displacing hexokinase from mitochondrial voltage-dependent anion channel impairs GLT-1-mediated glutamate uptake but does not disrupt interactions between GLT-1 and mitochondrial proteins. <b>2015</b> , 93, 999-1008	25
1391	The adhesion GPCR Gpr56 regulates oligodendrocyte development via interactions with G $\alpha$ 12/13 and RhoA. <b>2015</b> , 6, 6122	79
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1379	Anti-muscarinic adjunct therapy accelerates functional human oligodendrocyte repair. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 3676-88	6.6	47
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1376	CCN3 overexpression inhibits growth of callosal projections via upregulation of RAB25. <b>2015</b> , 461, 456-62		11
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1365	Actin filament turnover drives leading edge growth during myelin sheath formation in the central nervous system. <b>2015</b> , 34, 139-151		146

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1362	Double minute amplification of mutant PDGF receptor $\beta$ in a mouse glioma model. <b>2015, 5, 8468</b>		9
1361	Loss of NFIX Transcription Factor Biases Postnatal Neural Stem/Progenitor Cells Toward Oligodendrogenesis. <b>2015, 24, 2114-26</b>		16
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1352	Astrocyte VAMP3 vesicles undergo Ca <sup>2+</sup> -independent cycling and modulate glutamate transporter trafficking. <b>2015, 593, 2807-32</b>		34
1351	Let-7 and miR-125 cooperate to prime progenitors for astrogliogenesis. <b>2015, 34, 1180-94</b>		43
1350	Physiological and pathophysiological functions of cell cycle proteins in post-mitotic neurons: implications for Alzheimer's disease. <b>2015, 129, 511-25</b>		31
1349	Cholesterol metabolism and homeostasis in the brain. <b>2015, 6, 254-64</b>		287
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1346	Predicting involvement of polycomb repressive complex 2 in direct conversion of mouse fibroblasts into induced neural stem cells. <b>2015</b> , 6, 42	9
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1344	Towards the automatic classification of neurons. <b>2015</b> , 38, 307-18	60
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1342	Transcriptional analysis of glial cell differentiation in the postnatal murine spinal cord. <b>2015</b> , 42, 24-36	3
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1340	Podoplanin: a marker for reactive gliosis in gliomas and brain injury. <b>2015</b> , 74, 64-74	36
1339	Simultaneous neuron- and astrocyte-specific fluorescent marking. <b>2015</b> , 459, 81-6	7
1338	Complex alterations in microglial M1/M2 markers during the development of epilepsy in two mouse models. <b>2015</b> , 56, 895-905	84
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1335	Molecular identity of human outer radial glia during cortical development. <b>2015</b> , 163, 55-67	464
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1331	MicroRNA-153 Regulates the Acquisition of Gliogenic Competence by Neural Stem Cells. <b>2015</b> , 5, 365-77	34
1330	Validation of Flow Cytometry and Magnetic Bead-Based Methods to Enrich CNS Single Cell Suspensions for Quiescent Microglia. <b>2015</b> , 10, 655-65	5
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1325	Tonic Local Brain Blood Flow Control by Astrocytes Independent of Phasic Neurovascular Coupling. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 13463-74	6.6	77
1324	Conditional depletion of intellectual disability and Parkinsonism candidate gene ATP6AP2 in fly and mouse induces cognitive impairment and neurodegeneration. <b>2015</b> , 24, 6736-55		39
1323	Adult Lineage-Restricted CNS Progenitors Specify Distinct Glioblastoma Subtypes. <b>2015</b> , 28, 429-440		129
1322	Morphological plasticity of astroglia: Understanding synaptic microenvironment. <b>2015</b> , 63, 2133-51		102
1321	Effects of sleep and wake on astrocytes: clues from molecular and ultrastructural studies. <b>2015</b> , 13, 66		92
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1319	Defects of Lipid Synthesis Are Linked to the Age-Dependent Demyelination Caused by Lamin B1 Overexpression. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 12002-17	6.6	38
1318	Do stars govern our actions? Astrocyte involvement in rodent behavior. <b>2015</b> , 38, 535-49		105
1317	Sox2 Sustains Recruitment of Oligodendrocyte Progenitor Cells following CNS Demyelination and Primes Them for Differentiation during Remyelination. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 11482-99	6.6	45
1316	COX-2-Derived Prostaglandin E2 Produced by Pyramidal Neurons Contributes to Neurovascular Coupling in the Rodent Cerebral Cortex. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 11791-810	6.6	67
1315	Astrocyte Depletion Impairs Redox Homeostasis and Triggers Neuronal Loss in the Adult CNS. <b>2015</b> , 12, 1377-84		72
1314	How to make an oligodendrocyte. <b>2015</b> , 142, 3983-95		137
1313	Global Transcriptome Analysis of Primary Cerebrocortical Cells: Identification of Genes Regulated by Triiodothyronine in Specific Cell Types. <b>2017</b> , 27, 706-717		39
1312	Ets Factors Regulate Neural Stem Cell Depletion and Gliogenesis in Ras Pathway Glioma. <b>2015</b> , 12, 258-71		38
1311	JAKMIP1, a Novel Regulator of Neuronal Translation, Modulates Synaptic Function and Autistic-like Behaviors in Mouse. <b>2015</b> , 88, 1173-1191		28

1310	Reciprocal Regulation of Mitochondrial Dynamics and Calcium Signaling in Astrocyte Processes. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 15199-213	6.6	63
1309	Transcriptome organization for chronic alcohol abuse in human brain. <b>2015</b> , 20, 1438-47		79
1308	Role of transcriptional control in multiple system atrophy. <b>2015</b> , 36, 394-400		8
1307	Alzheimer's disease is associated with altered expression of genes involved in immune response and mitochondrial processes in astrocytes. <b>2015</b> , 36, 583-91		125
1306	Astrocyte development and heterogeneity. <b>2014</b> , 7, a020362		203
1305	Classification of subpopulations of cells within human primary brain tumors by single cell gene expression profiling. <b>2015</b> , 40, 336-52		5
1304	Effects of chronic HIV-1 Tat exposure in the CNS: heightened vulnerability of males versus females to changes in cell numbers, synaptic integrity, and behavior. <b>2015</b> , 220, 605-23		58
1303	Astrocytes in neurodegenerative diseases (I): function and molecular description. <b>2015</b> , 30, 119-29		37
1302	Disruption of polyubiquitin gene Ubb causes dysregulation of neural stem cell differentiation with premature gliogenesis. <b>2014</b> , 4, 7026		22
1301	High-resolution prediction of mouse brain connectivity using gene expression patterns. <b>2015</b> , 73, 71-8		22
1300	Visualizing the spatial gene expression organization in the brain through non-linear similarity embeddings. <b>2015</b> , 73, 79-89		39
1299	Global transcriptome profiling of genes that are differentially regulated during differentiation of mouse embryonic neural stem cells into astrocytes. <b>2015</b> , 55, 109-125		10
1298	The EIIIA domain from astrocyte-derived fibronectin mediates proliferation of oligodendrocyte progenitor cells following CNS demyelination. <b>2015</b> , 63, 242-56		30
1297	Astrocytes show reduced support of motor neurons with aging that is accelerated in a rodent model of ALS. <b>2015</b> , 36, 1130-9		41
1296	Differential and converging molecular mechanisms of antidepressants' action in the hippocampal dentate gyrus. <b>2015</b> , 40, 338-49		35
1295	An anterograde rabies virus vector for high-resolution large-scale reconstruction of 3D neuron morphology. <b>2015</b> , 220, 1369-79		27
1294	Ammonia, like K(+), stimulates the Na(+), K(+), 2 Cl(-) cotransporter NKCC1 and the Na(+),K(+)-ATPase and interacts with endogenous ouabain in astrocytes. <b>2015</b> , 40, 241-57		18
1293	Astrocytes: Adhesion Molecules and Immunomodulation. <b>2016</b> , 17, 1871-1881		26



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867	Astroglial correlates of neuropsychiatric disease: From astrocytopathy to astrogliosis. <b>2018</b> , 87, 126-146	59
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845	Phagocytic Roles of Glial Cells in Healthy and Diseased Brains. <b>2018</b> , 26, 350-357		46
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831	Integrated systems analysis reveals conserved gene networks underlying response to spinal cord injury. <b>2018</b> , 7,	17
830	Fine Tuning the Cytokine Storm by IFN and IL-10 Following Neurotropic Coronavirus Encephalomyelitis. <b>2018</b> , 9, 3022	38
829	Electrophysiological Profiling of Neocortical Neural Subtypes: A Semi-Supervised Method Applied to Whole-Cell Patch-Clamp Data. <b>2018</b> , 12, 823	9
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702	Pluripotent stem-cell-derived oligodendrocyte progenitors to model demyelination caused by Theiler's murine encephalomyelitis virus and other viruses. <b>2021</b> , 121-148	
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700	Decoding Cortical Glial Cell Development. <b>2021</b> , 37, 440-460	11
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