Hideyuki Okano

List of Publications by Year
in descending order

589 papers	39,449 citations	2203 99 h-index	4750 169 g-index
629 all docs	629 docs citations	629 times ranked	39834 citing authors

#	Article	IF	Citations
1	Conditional ablation of Stat3 or Socs3 discloses a dual role for reactive astrocytes after spinal cord injury. Nature Medicine, 2006, 12, 829-834.	15.2	828
2	Variation in the safety of induced pluripotent stem cell lines. Nature Biotechnology, 2009, 27, 743-745.	9.4	811
3	Prospective identification, isolation, and systemic transplantation of multipotent mesenchymal stem cells in murine bone marrow. Journal of Experimental Medicine, 2009, 206, 2483-2496.	4.2	715
4	Generation of transgenic non-human primates with germline transmission. Nature, 2009, 459, 523-527.	13.7	675
5	In vitro neurogenesis by progenitor cells isolated from the adult human hippocampus. Nature Medicine, 2000, 6, 271-277.	15.2	539
6	Mouse-Musashi-1, a Neural RNA-Binding Protein Highly Enriched in the Mammalian CNS Stem Cell. Developmental Biology, 1996, 176, 230-242.	0.9	533
7	Modeling familial Alzheimer's disease with induced pluripotent stem cells. Human Molecular Genetics, 2011, 20, 4530-4539.	1.4	527
8	Therapeutic potential of appropriately evaluated safe-induced pluripotent stem cells for spinal cord injury. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12704-12709.	3.3	489
9	Grafted human-induced pluripotent stem-cellâ€"derived neurospheres promote motor functional recovery after spinal cord injury in mice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16825-16830.	3.3	473
10	Identification of a putative intestinal stem cell and early lineage marker; musashi-1. Differentiation, 2003, 71, 28-41.	1.0	442
11	The Neural RNA-Binding Protein Musashi1 Translationally Regulates Mammalian numb Gene Expression by Interacting with Its mRNA. Molecular and Cellular Biology, 2001, 21, 3888-3900.	1.1	433
12	Steps Toward Safe Cell Therapy Using Induced Pluripotent Stem Cells. Circulation Research, 2013, 112, 523-533.	2.0	371
13	A selective Sema3A inhibitor enhances regenerative responses and functional recovery of the injured spinal cord. Nature Medicine, 2006, 12, 1380-1389.	15.2	368
14	Musashi, a neural RNA-binding protein required for drosophila adult external sensory organ development. Neuron, 1994, 13, 67-81.	3.8	366
15	Notch Inhibition Induces Cochlear Hair Cell Regeneration and Recovery of Hearing after Acoustic Trauma. Neuron, 2013, 77, 58-69.	3.8	363
16	Function of RNA-binding protein Musashi-1 in stem cells. Experimental Cell Research, 2005, 306, 349-356.	1.2	356
17	Ontogeny and Multipotency of Neural Crest-Derived Stem Cells in Mouse Bone Marrow, Dorsal Root Ganglia, and Whisker Pad. Cell Stem Cell, 2008, 2, 392-403.	5.2	347
18	Mitochondrial dysfunction associated with increased oxidative stress and Î±-synuclein accumulation in PARK2 iPSC-derived neurons and postmortem brain tissue. Molecular Brain, 2012, 5, 35.	1.3	333

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19	Sema3A regulates bone-mass accrual through sensory innervations. Nature, 2013, 497, 490-493.	13.7	329
20	RNA-binding protein Musashi family: Roles for CNS stem cells and a subpopulation of ependymal cells revealed by targeted disruption and antisense ablation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15194-15199.	3.3	320
21	Single-cell bioluminescence imaging of deep tissue in freely moving animals. Science, 2018, 359, 935-939.	6.0	319
22	Cardiac neural crest cells contribute to the dormant multipotent stem cell in the mammalian heart. Journal of Cell Biology, 2005, 170, 1135-1146.	2.3	310
23	Dysfunction of fibroblasts of extrarenal origin underlies renal fibrosis and renal anemia in mice. Journal of Clinical Investigation, 2011, 121, 3981-3990.	3.9	307
24	Retinoic-acid-concentration-dependent acquisition of neural cell identity during in vitro differentiation of mouse embryonic stem cells. Developmental Biology, 2004, 275, 124-142.	0.9	302
25	Musashi: a translational regulator of cell fate. Journal of Cell Science, 2002, 115, 1355-1359.	1.2	300
26	Nestin-EGFP Transgenic Mice: Visualization of the Self-Renewal and Multipotency of CNS Stem Cells. Molecular and Cellular Neurosciences, 2001, 17, 259-273.	1.0	298
27	Brain from bone: Efficient â€œmeta-differentiationâ€•of marrow stroma-derived mature osteoblasts to neurons with Noggin or a demethylating agent. Differentiation, 2001, 68, 235-244.	1.0	292
28	Reactive astrocytes function as phagocytes after brain ischemia via ABCA1-mediated pathway. Nature Communications, 2017, 8, 28.	5.8	287
29	Unexpectedly Efficient Homing Capacity of Purified Murine Hematopoietic Stem Cells. Immunity, 2004, 20, 87-93.	6.6	278
30	Increased L1 Retrotransposition in the Neuronal Genome in Schizophrenia. Neuron, 2014, 81, 306-313.	3.8	277
31	Modeling sporadic ALS in iPSC-derived motor neurons identifies a potential therapeutic agent. Nature Medicine, 2018, 24, 1579-1589.	15.2	268
32	Stem cell biology of the central nervous system. Journal of Neuroscience Research, 2002, 69, 698-707.	1.3	266
33	Pre-Evaluated Safe Human iPSC-Derived Neural Stem Cells Promote Functional Recovery after Spinal Cord Injury in Common Marmoset without Tumorigenicity. PLoS ONE, 2012, 7, e52787.	1.1	266
34	Musashi: a translational regulator of cell fate. Journal of Cell Science, 2002, 115, 1355-9.	1.2	261
35	Fibroblast growth factor-2/brain-derived neurotrophic factor?associated maturation of new neurons generated from adult human subependymal cells. Annals of Neurology, 1998, 43, 576-585.	2.8	259
36	Glial cell degeneration and hypomyelination caused by overexpression of myelin proteolipid protein gene. Neuron, 1994, 13, 427-442.	3.8	257

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37	Expression of Neural RNA-Binding Proteins in the Postnatal CNS: Implications of Their Roles in Neuronal and Glial Cell Development. Journal of Neuroscience, 1997, 17, 8300-8312.	1.7	254
38	Isolation of mouse mesenchymal stem cells on the basis of expression of Sca-1 and PDGFR-Î±. Nature Protocols, 2012, 7, 2103-2111.	5.5	247
39	Development of mesenchymal stem cells partially originate from the neural crest. Biochemical and Biophysical Research Communications, 2009, 379, 1114-1119.	1.0	244
40	SAMD9 mutations cause a novel multisystem disorder, MIRAGE syndrome, and are associated with loss of chromosome 7. Nature Genetics, 2016, 48, 792-797.	9.4	243
41	Evolutionarily Dynamic Alternative Splicing of <i>GPR56</i> Regulates Regional Cerebral Cortical Patterning. Science, 2014, 343, 764-768.	6.0	238
42	RNA-Binding Protein Musashi2: Developmentally Regulated Expression in Neural Precursor Cells and Subpopulations of Neurons in Mammalian CNS. Journal of Neuroscience, 2001, 21, 8091-8107.	1.7	233
43	Stem Cell-Like Properties of the Endometrial Side Population: Implication in Endometrial Regeneration. PLoS ONE, 2010, 5, e10387.	1.1	233
44	Brains, Genes, and Primates. Neuron, 2015, 86, 617-631.	3.8	231
45	Î²-Catenin Signaling Promotes Proliferation of Progenitor Cells in the Adult Mouse Subventricular Zone. Stem Cells, 2007, 25, 2827-2836.	1.4	230
46	Visualization of peripheral nerve degeneration and regeneration: Monitoring with diffusion tensor tractography. NeuroImage, 2009, 44, 884-892.	2.1	229
47	Requirement for COUP-TFI and II in the temporal specification of neural stem cells in CNS development. Nature Neuroscience, 2008, 11, 1014-1023.	7.1	225
48	Single-cell transcriptomics reveals expansion of cytotoxic CD4 T cells in supercentenarians. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24242-24251.	3.3	215
49	Cell types to order: temporal specification of CNS stem cells. Current Opinion in Neurobiology, 2009, 19, 112-119.	2.0	214
50	The long non-coding RNA nuclear-enriched abundant transcript 1_2 induces paraspeckle formation in the motor neuron during the early phase of amyotrophic lateral sclerosis. Molecular Brain, 2013, 6, 31.	1.3	214
51	In vivo imaging of engrafted neural stem cells: its application in evaluating the optimal timing of transplantation for spinal cord injury. FASEB Journal, 2005, 19, 1839-1841.	0.2	213
52	iPS cell technologies: significance and applications to CNS regeneration and disease. Molecular Brain, 2014, 7, 22.	1.3	204
53	Abundant Occurrence of Basal Radial Glia in the Subventricular Zone of Embryonic Neocortex of a Lissencephalic Primate, the Common Marmoset Callithrix jacchus. Cerebral Cortex, 2012, 22, 469-481.	1.6	201
54	The RNA-binding protein HuD regulates neuronal cell identity and maturation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4625-4630.	3.3	196

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55	Neuronal Elav-like (Hu) Proteins Regulate RNA Splicing and Abundance to Control Glutamate Levels and Neuronal Excitability. Neuron, 2012, 75, 1067-1080.	3.8	190
56	LNGFR+THY-1+VCAM-1hi+ Cells Reveal Functionally Distinct Subpopulations in Mesenchymal Stem Cells. Stem Cell Reports, 2013, 1, 152-165.	2.3	187
57	Long-Term Safety Issues of iPSC-Based Cell Therapy in a Spinal Cord Injury Model: Oncogenic Transformation with Epithelial-Mesenchymal Transition. Stem Cell Reports, 2015, 4, 360-373.	2.3	187
58	The common marmoset as a novel animal model system for biomedical and neuroscience research applications. Seminars in Fetal and Neonatal Medicine, 2012, 17, 336-340.	1.1	185
59	Side population in human uterine myometrium displays phenotypic and functional characteristics of myometrial stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18700-18705.	3.3	179
60	Isolation of Multipotent Neural Crest-Derived Stem Cells from the Adult Mouse Cornea. Stem Cells, 2006, 24, 2714-2722.	1.4	178
61	Cell transplantation therapies for spinal cord injury focusing on induced pluripotent stem cells. Cell Research, 2013, 23, 70-80.	5.7	177
62	Common marmoset as a new model animal for neuroscience research and genome editing technology. Development Growth and Differentiation, 2014, 56, 53-62.	0.6	174
63	Brain/MINDS: A Japanese National Brain Project for Marmoset Neuroscience. Neuron, 2016, 92, 582-590.	3.8	174
64	Neural RNA-binding protein Musashi1 inhibits translation initiation by competing with eIF4G for PABP. Journal of Cell Biology, 2008, 181, 639-653.	2.3	172
65	High-yield selection and extraction of two promoter-defined phenotypes of neural stem cells from the fetal human brain. Nature Biotechnology, 2001, 19, 843-850.	9.4	171
66	Translational repression determines a neuronal potential in Drosophila asymmetric cell division. Nature, 2001, 411, 94-98.	13.7	169
67	Human neural stem/progenitor cells, expanded in long-term neurosphere culture, promote functional recovery after focal ischemia in Mongolian gerbils. Journal of Neuroscience Research, 2004, 78, 215-223.	1.3	168
68	Grafted Human iPS Cell-Derived Oligodendrocyte Precursor Cells Contribute to Robust Remyelination of Demyelinated Axons after Spinal Cord Injury. Stem Cell Reports, 2016, 6, 1-8.	2.3	168
69	Spatiotemporal Recapitulation of Central Nervous System Development by Murine Embryonic Stem Cell-Derived Neural Stem/Progenitor Cells. Stem Cells, 2008, 26, 3086-3098.	1.4	162
70	STAT3-dependent reactive astrogliosis in the spinal dorsal horn underlies chronic itch. Nature Medicine, 2015, 21, 927-931.	15.2	154
71	Establishment of Novel Embryonic Stem Cell Lines Derived from the Common Marmoset (Callithrix) Tj ETQq1 1 0.784314 rgBT /Overlock	1.4	152
72	Chondroitinase ABC combined with neural stem/progenitor cell transplantation enhances graft cell migration and outgrowth of growth-associated protein-43-positive fibers after rat spinal cord injury. European Journal of Neuroscience, 2005, 22, 3036-3046.	1.2	151

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73	Common functional networks in the mouse brain revealed by multi-centre resting-state fMRI analysis. NeuroImage, 2020, 205, 116278.	2.1	151
74	Transplantation of neural stem cells into the spinal cord after injury. Seminars in Cell and Developmental Biology, 2003, 14, 191-198.	2.3	146
75	SOX10 is a novel marker of acinus and intercalated duct differentiation in salivary gland tumors: a clue to the histogenesis for tumor diagnosis. Modern Pathology, 2013, 26, 1041-1050.	2.9	146
76	Hepatocyte growth factor promotes endogenous repair and functional recovery after spinal cord injury. Journal of Neuroscience Research, 2007, 85, 2332-2342.	1.3	144
77	Noninvasive and real-time assessment of reconstructed functional human endometrium in NOD/SCID/ÂFormula immunodeficient mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1925-1930.	3.3	141
78	Generation of a Nonhuman Primate Model of Severe Combined Immunodeficiency Using Highly Efficient Genome Editing. Cell Stem Cell, 2016, 19, 127-138.	5.2	139
79	Time-dependent changes in the microenvironment of injured spinal cord affects the therapeutic potential of neural stem cell transplantation for spinal cord injury. Molecular Brain, 2013, 6, 3.	1.3	137
80	Evaluation of in vitro proliferative activity of human fetal neural stem/progenitor cells using indirect measurements of viable cells based on cellular metabolic activity. Journal of Neuroscience Research, 2002, 69, 869-879.	1.3	133
81	Focal Transplantation of Human iPSC-Derived Glial-Rich Neural Progenitors Improves Lifespan of ALS Mice. Stem Cell Reports, 2014, 3, 242-249.	2.3	131
82	ICE/CEDâ€3 Family Executes Oligodendrocyte Apoptosis by Tumor Necrosis Factor. Journal of Neurochemistry, 1997, 69, 10-20.	2.1	130
83	Significance of Remyelination by Neural Stem/Progenitor Cells Transplanted into the Injured Spinal Cord. Stem Cells, 2011, 29, 1983-1994.	1.4	129
84	Epigenetic transcriptional activation of monocyte chemotactic protein 3 contributes to long-lasting neuropathic pain. Brain, 2013, 136, 828-843.	3.7	128
85	Heart failure causes cholinergic transdifferentiation of cardiac sympathetic nerves via gp130-signaling cytokines in rodents. Journal of Clinical Investigation, 2010, 120, 408-421.	3.9	128
86	Human-specific <i>ARHGAP11B</i> increases size and folding of primate neocortex in the fetal marmoset. Science, 2020, 369, 546-550.	6.0	127
87	The liverâ€“brainâ€“gut neural arc maintains the Treg cell niche in the gut. Nature, 2020, 585, 591-596.	13.7	126
88	Angiotensin II Type 1 Receptor Signaling Contributes to Synaptophysin Degradation and Neuronal Dysfunction in the Diabetic Retina. Diabetes, 2008, 57, 2191-2198.	0.3	125
89	Musashi1, an evolutionarily conserved neural RNA-binding protein, is a versatile marker of human glioma cells in determining their cellular origin, malignancy, and proliferative activity. Differentiation, 2001, 68, 141-152.	1.0	124
90	Generating induced pluripotent stem cells from common marmoset (<i>Callithrix jacchus</i>) fetal liver cells using defined factors, including Lin28. Genes To Cells, 2010, 15, 959-969.	0.5	120

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91	Involvement of Hu and Heterogeneous Nuclear Ribonucleoprotein K in Neuronal Differentiation through p21 mRNA Post-transcriptional Regulation. Journal of Biological Chemistry, 2005, 280, 12690-12699.	1.6	118
92	Musashi1 regulates breast tumor cell proliferation and is a prognostic indicator of poor survival. Molecular Cancer, 2010, 9, 221.	7.9	118
93	Anti-IL-6-receptor antibody promotes repair of spinal cord injury by inducing microglia-dominant inflammation. Experimental Neurology, 2010, 224, 403-414.	2.0	115
94	Image-based detection and targeting of therapy resistance in pancreatic adenocarcinoma. Nature, 2016, 534, 407-411.	13.7	114
95	Neuroprotective Effects of Angiotensin II Type 1 Receptor (AT1R) Blocker, Telmisartan, via Modulating AT1R and AT2R Signaling in Retinal Inflammation. , 2006, 47, 5545.		112
96	A human Dravet syndrome model from patient induced pluripotent stem cells. Molecular Brain, 2013, 6, 19.	1.3	111
97	Effect of neurosphere size on the growth rate of human neural stem/progenitor cells. Journal of Neuroscience Research, 2006, 84, 1682-1691.	1.3	110
98	Roles of ES Cell-Derived Gliogenic Neural Stem/Progenitor Cells in Functional Recovery after Spinal Cord Injury. PLoS ONE, 2009, 4, e7706.	1.1	109
99	Worldwide initiatives to advance brain research. Nature Neuroscience, 2016, 19, 1118-1122.	7.1	107
100	MicroRNAs in Neural Stem Cells and Neurogenesis. Frontiers in Neuroscience, 2012, 6, 30.	1.4	106
101	Functional Corneal Endothelium Derived from Corneal Stroma Stem Cells of Neural Crest Origin by Retinoic Acid and Wnt/Î²-Catenin Signaling. Stem Cells and Development, 2013, 22, 828-839.	1.1	106
102	Human Hepatocyte Growth Factor Promotes Functional Recovery in Primates after Spinal Cord Injury. PLoS ONE, 2011, 6, e27706.	1.1	104
103	Inflammatory and immune responses in the cochlea: potential therapeutic targets for sensorineural hearing loss. Frontiers in Pharmacology, 2014, 5, 287.	1.6	103
104	Generation of Human Melanocytes from Induced Pluripotent Stem Cells. PLoS ONE, 2011, 6, e16182.	1.1	102
105	Spinal cord injury: Emerging beneficial role of reactive astrocytesâ€™ migration. International Journal of Biochemistry and Cell Biology, 2008, 40, 1649-1653.	1.2	101
106	Mapping spatio-temporal activation of Notch signaling during neurogenesis and gliogenesis in the developing mouse brain. Journal of Neurochemistry, 2004, 90, 142-154.	2.1	100
107	Involvement of ER Stress in Dysmyelination of Pelizaeus-Merzbacher Disease with PLP1 Missense Mutations Shown by iPSC-Derived Oligodendrocytes. Stem Cell Reports, 2014, 2, 648-661.	2.3	100
108	Molecular Genetic Analysis of Myelin-Deficient Mice: Shiverer Mutant Mice Show Deletion in Gene(s) Coding for Myelin Basic Protein. Journal of Neurochemistry, 1985, 44, 692-696.	2.1	99

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109	Fail-Safe System against Potential Tumorigenicity after Transplantation of iPSC Derivatives. Stem Cell Reports, 2017, 8, 673-684.	2.3	99
110	Concise Review: Laying the Groundwork for a First-In-Human Study of an Induced Pluripotent Stem Cell-Based Intervention for Spinal Cord Injury. Stem Cells, 2019, 37, 6-13.	1.4	98
111	<i>In Vivo</i>Tracing of Neural Tracts in the Intact and Injured Spinal Cord of Marmosets by Diffusion Tensor Tractography. Journal of Neuroscience, 2007, 27, 11991-11998.	1.7	96
112	The use of induced pluripotent stem cells to reveal pathogenic gene mutations and explore treatments for retinitis pigmentosa. Molecular Brain, 2014, 7, 45.	1.3	95
113	Modeling human neurological disorders with induced pluripotent stem cells. Journal of Neurochemistry, 2014, 129, 388-399.	2.1	93
114	Brain/MINDS: brain-mapping project in Japan. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140310.	1.8	89
115	Analysis of induced pluripotent stem cells carrying 22q11.2 deletion. Translational Psychiatry, 2016, 6, e934-e934.	2.4	85
116	Murine homologs ofdeltexdefine a novel gene family involved in vertebrate Notch signaling and neurogenesis. International Journal of Developmental Neuroscience, 2001, 19, 21-35.	0.7	84
117	Neural Stem Cells Directly Differentiated from Partially Reprogrammed Fibroblasts Rapidly Acquire Gliogenic Competency. Stem Cells, 2012, 30, 1109-1119.	1.4	84
118	Controlling the Regional Identity of hPSC-Derived Neurons to Uncover Neuronal Subtype Specificity of Neurological Disease Phenotypes. Stem Cell Reports, 2015, 5, 1010-1022.	2.3	84
119	BDNF Induced by Treadmill Training Contributes to the Suppression of Spasticity and Allodynia After Spinal Cord Injury via Upregulation of KCC2. Neurorehabilitation and Neural Repair, 2015, 29, 677-689.	1.4	84
120	Functional Recovery from Neural Stem/Progenitor Cell Transplantation Combined with Treadmill Training in Mice with Chronic Spinal Cord Injury. Scientific Reports, 2016, 6, 30898.	1.6	84
121	Altered Tau Isoform Ratio Caused by Loss of FUS and SFPQ Function Leads to FTLD-like Phenotypes. Cell Reports, 2017, 18, 1118-1131.	2.9	83
122	The power of synthetic biology for bioproduction, remediation and pollution control. EMBO Reports, 2018, 19, .	2.0	83
123	Macrophage migration inhibitory factor (MIF) promotes cell survival and proliferation of neural stem/progenitor cells. Journal of Cell Science, 2012, 125, 3210-20.	1.2	82
124	Brain-mapping projects using the common marmoset. Neuroscience Research, 2015, 93, 3-7.	1.0	82
125	Tumour resistance in induced pluripotent stem cells derived from naked mole-rats. Nature Communications, 2016, 7, 11471.	5.8	81
126	Comparative Study of Methods for Administering Neural Stem/Progenitor Cells to Treat Spinal Cord Injury in Mice. Cell Transplantation, 2011, 20, 727-739.	1.2	80

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127	Small RNA profiling and characterization of piRNA clusters in the adult testes of the common marmoset, a model primate. Rna, 2014, 20, 1223-1237.	1.6	80
128	Epigenetic regulation of neural cell differentiation plasticity in the adult mammalian brain. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18012-18017.	3.3	79
129	Structure of Musashi1 in a complex with target RNA: the role of aromatic stacking interactions. Nucleic Acids Research, 2012, 40, 3218-3231.	6.5	79
130	RNA-Binding Protein Musashi1 Modulates Glioma Cell Growth through the Post-Transcriptional Regulation of Notch and PI3 Kinase/Akt Signaling Pathways. PLoS ONE, 2012, 7, e33431.	1.1	79
131	Pretreatment with a Î³-Secretase Inhibitor Prevents Tumor-like Overgrowth in Human iPSC-Derived Transplants for Spinal Cord Injury. Stem Cell Reports, 2016, 7, 649-663.	2.3	79
132	Rapid, efficient, and simple motor neuron differentiation from human pluripotent stem cells. Molecular Brain, 2015, 8, 79.	1.3	78
133	Physiological effects of a habituation procedure for functional MRI in awake mice using a cryogenic radiofrequency probe. Journal of Neuroscience Methods, 2016, 274, 38-48.	1.3	78
134	Astrocyte-Derived Exosomes Treated With a Semaphorin 3A Inhibitor Enhance Stroke Recovery via Prostaglandin D ₂ Synthase. Stroke, 2018, 49, 2483-2494.	1.0	78
135	Components of the transcriptional Mediator complex are required for asymmetric cell division in C. elegans. Development (Cambridge), 2005, 132, 1885-1893.	1.2	77
136	Differentiation of multipotent neural stem cells derived from Rett syndrome patients is biased toward the astrocytic lineage. Molecular Brain, 2015, 8, 31.	1.3	77
137	Establishment of InÂVitro FUS-Associated Familial Amyotrophic Lateral Sclerosis Model Using Human Induced Pluripotent Stem Cells. Stem Cell Reports, 2016, 6, 496-510.	2.3	74
138	Role of cyclooxygenase-2-mediated prostaglandin E2-prostaglandin E receptor 4 signaling in cardiac reprogramming. Nature Communications, 2019, 10, 674.	5.8	74
139	First-in-human clinical trial of transplantation of iPSC-derived NS/PCs in subacute complete spinal cord injury: Study protocol. Regenerative Therapy, 2021, 18, 321-333.	1.4	74
140	Transplantation of galectinâ€1â€expressing human neural stem cells into the injured spinal cord of adult common marmosets. Journal of Neuroscience Research, 2010, 88, 1394-1405.	1.3	73
141	Comparative Anatomy of Marmoset and Mouse Cortex from Genomic Expression. Journal of Neuroscience, 2012, 32, 5039-5053.	1.7	72
142	Establishment of Induced Pluripotent Stem Cells from Centenarians for Neurodegenerative Disease Research. PLoS ONE, 2012, 7, e41572.	1.1	72
143	Human Induced Pluripotent Stem Cellâ€“Derived Ectodermal Precursor Cells Contribute to Hair Follicle Morphogenesis In Vivo. Journal of Investigative Dermatology, 2013, 133, 1479-1488.	0.3	72
144	Optogenetic astrocyte activation evokes BOLD fMRI response with oxygen consumption without neuronal activity modulation. Glia, 2018, 66, 2013-2023.	2.5	72

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145	Musashi1 Cooperates in Abnormal Cell Lineage Protein 28 (Lin28)-mediated Let-7 Family MicroRNA Biogenesis in Early Neural Differentiation. Journal of Biological Chemistry, 2011, 286, 16121-16130.	1.6	71
146	iPSC-based disease modeling and drug discovery in cardinal neurodegenerative disorders. Cell Stem Cell, 2022, 29, 189-208.	5.2	71
147	Sox10- Venus mice: a new tool for real-time labeling of neural crest lineage cells and oligodendrocytes. Molecular Brain, 2010, 3, 31.	1.3	70
148	Role of IL-6 in Spinal Cord Injury in a Mouse Model. Clinical Reviews in Allergy and Immunology, 2005, 28, 197-204.	2.9	69
149	Fbxo45, a Novel Ubiquitin Ligase, Regulates Synaptic Activity. Journal of Biological Chemistry, 2010, 285, 3840-3849.	1.6	69
150	A new minimally-invasive method for microinjection into the mouse spinal dorsal horn. Scientific Reports, 2015, 5, 14306.	1.6	69
151	The Brain/MINDS 3D digital marmoset brain atlas. Scientific Data, 2018, 5, 180009.	2.4	68
152	Selective Ablation of Tumorigenic Cells Following Human Induced Pluripotent Stem Cell-Derived Neural Stem/Progenitor Cell Transplantation in Spinal Cord Injury. Stem Cells Translational Medicine, 2019, 8, 260-270.	1.6	68
153	Cell Therapy for Spinal Cord Injury by Neural Stem/Progenitor Cells Derived from iPS/ES Cells. Neurotherapeutics, 2011, 8, 668-676.	2.1	67
154	Regulation of RhoA by STAT3 coordinates glial scar formation. Journal of Cell Biology, 2017, 216, 2533-2550.	2.3	67
155	Neural RNA-Binding Protein Musashi1 Controls Midline Crossing of Precerebellar Neurons through Posttranscriptional Regulation of Robo3/Rig-1 Expression. Neuron, 2010, 67, 407-421.	3.8	66
156	Treatment with a Gamma-Secretase Inhibitor Promotes Functional Recovery in Human iPSC- Derived Transplants for Chronic Spinal Cord Injury. Stem Cell Reports, 2018, 11, 1416-1432.	2.3	66
157	T-type Calcium Channels Determine the Vulnerability of Dopaminergic Neurons to Mitochondrial Stress in Familial Parkinson Disease. Stem Cell Reports, 2018, 11, 1171-1184.	2.3	66
158	Cell-cycle-specific nestin expression coordinates with morphological changes in embryonic cortical neural progenitors. Journal of Cell Science, 2008, 121, 1204-1212.	1.2	65
159	The disruption of Sox21-mediated hair shaft cuticle differentiation causes cyclic alopecia in mice. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9292-9297.	3.3	65
160	Direct isolation and RNA-seq reveal environment-dependent properties of engrafted neural stem/progenitor cells. Nature Communications, 2012, 3, 1140.	5.8	65
161	Cell therapy for spinal cord injury using induced pluripotent stem cells. Regenerative Therapy, 2019, 11, 75-80.	1.4	65
162	Two Distinct Stem Cell Lineages in Murine Bone Marrow. Stem Cells, 2007, 25, 1213-1221.	1.4	64

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163	Suppression of Oct4 by Germ Cell Nuclear Factor Restricts Pluripotency and Promotes Neural Stem Cell Development in the Early Neural Lineage. Journal of Neuroscience, 2009, 29, 2113-2124.	1.7	64
164	iPSC-derived neural precursor cells: potential for cell transplantation therapy in spinal cord injury. Cellular and Molecular Life Sciences, 2018, 75, 989-1000.	2.4	64
165	Opportunities and limitations of genetically modified nonhuman primate models for neuroscience research. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24022-24031.	3.3	64
166	Visualization of spatiotemporal activation of Notch signaling: Live monitoring and significance in neural development. Developmental Biology, 2005, 286, 311-325.	0.9	63
167	Cochlear Cell Modeling Using Disease-Specific iPSCs Unveils a Degenerative Phenotype and Suggests Treatments for Congenital Progressive Hearing Loss. Cell Reports, 2017, 18, 68-81.	2.9	63
168	Ropinirole, a New ALS Drug Candidate Developed Using iPSCs. Trends in Pharmacological Sciences, 2020, 41, 99-109.	4.0	63
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