Michael Chopp

List of Publications by Year
in descending order

222 papers	15,713 citations	23567 58 h-index	19749 117 g-index
223 all docs	223 docs citations	223 times ranked	15049 citing authors

#	Article	IF	Citations
1	Therapeutic Benefit of Intravenous Administration of Bone Marrow Stromal Cells After Cerebral Ischemia in Rats. Stroke, 2001, 32, 1005-1011.	2.0	1,576
2	VEGF enhances angiogenesis and promotes blood-brain barrier leakage in the ischemic brain. Journal of Clinical Investigation, 2000, 106, 829-838.	8.2	1,115
3	Treatment of neural injury with marrow stromal cells. Lancet Neurology, The, 2002, 1, 92-100.	10.2	576
4	Astrocytes, therapeutic targets for neuroprotection and neurorestoration in ischemic stroke. Progress in Neurobiology, 2016, 144, 103-120.	5.7	434
5	MicroRNA-17â€“92 Cluster in Exosomes Enhance Neuroplasticity and Functional Recovery After Stroke in Rats. Stroke, 2017, 48, 747-753.	2.0	424
6	Atorvastatin Induction of VEGF and BDNF Promotes Brain Plasticity after Stroke in Mice. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 281-290.	4.3	402
7	Sildenafil (Viagra) Induces Neurogenesis and Promotes Functional Recovery After Stroke in Rats. Stroke, 2002, 33, 2675-2680.	2.0	363
8	Exosomes â€” beyond stem cells for restorative therapy in stroke and neurological injury. Nature Reviews Neurology, 2019, 15, 193-203.	10.1	353
9	Brainâ€“Heart Interaction. Circulation Research, 2017, 121, 451-468.	4.5	331
10	Systemic administration of cell-free exosomes generated by human bone marrow derived mesenchymal stem cells cultured under 2D and 3D conditions improves functional recovery in rats after traumatic brain injury. Neurochemistry International, 2017, 111, 69-81.	3.8	290
11	The Effect of Hypothermia on Transient Middle Cerebral Artery Occlusion in the Rat. Journal of Cerebral Blood Flow and Metabolism, 1992, 12, 621-628.	4.3	269
12	The Metabolic Effects of Mild Hypothermia on Global Cerebral Ischemia and Recirculation in the Cat: Comparison to Normothermia and Hyperthermia. Journal of Cerebral Blood Flow and Metabolism, 1989, 9, 141-148.	4.3	252
13	Exosomes/miRNAs as mediating cell-based therapy of stroke. Frontiers in Cellular Neuroscience, 2014, 8, 377.	3.7	250
14	A nitric oxide donor induces neurogenesis and reduces functional deficits after stroke in rats. Annals of Neurology, 2001, 50, 602-611.	5.3	248
15	Exosomes Derived from Mesenchymal Stromal Cells Promote Axonal Growth of Cortical Neurons. Molecular Neurobiology, 2017, 54, 2659-2673.	4.0	228
16	Models and mechanisms of vascular dementia. Experimental Neurology, 2015, 272, 97-108.	4.1	225
17	Neuronal Damage and Plasticity Identified by Microtubule-Associated Protein 2, Growth-Associated Protein 43, and Cyclin D1 Immunoreactivity After Focal Cerebral Ischemia in Rats. Stroke, 1998, 29, 1972-1981.	2.0	221
18	Temperature Modulation of Cerebral Depolarization during Focal Cerebral Ischemia in Rats: Correlation with Ischemic Injury. Journal of Cerebral Blood Flow and Metabolism, 1993, 13, 389-394.	4.3	196

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19	Impairment of the glymphatic system after diabetes. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1326-1337.	4.3	194
20	A New Rat Model of Thrombotic Focal Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 123-135.	4.3	178
21	ARL 17477, a Potent and Selective Neuronal NOS Inhibitor Decreases Infarct Volume after Transient Middle Cerebral Artery Occlusion in Rats. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 599-604.	4.3	168
22	Neutrophil inhibitory factor is neuroprotective after focal Ischemia in rats. Annals of Neurology, 1995, 38, 935-942.	5.3	152
23	Neurorestorative Therapy for Stroke. Frontiers in Human Neuroscience, 2014, 8, 382.	2.0	143
24	Stem Cells as an Emerging Paradigm in Stroke 3. Stroke, 2014, 45, 634-639.	2.0	141
25	Current understanding of neuroinflammation after traumatic brain injury and cell-based therapeutic opportunities. Chinese Journal of Traumatology - English Edition, 2018, 21, 137-151.	1.4	135
26	Oligodendrogenesis after cerebral ischemia. Frontiers in Cellular Neuroscience, 2013, 7, 201.	3.7	129
27	Emerging potential of exosomes for treatment of traumatic brain injury. Neural Regeneration Research, 2017, 12, 19.	3.0	123
28	Mesenchymal stromal cell-derived exosomes ameliorate peripheral neuropathy in a mouse model of diabetes. Diabetologia, 2020, 63, 431-443.	6.3	119
29	Exosome Therapy for Stroke. Stroke, 2018, 49, 1083-1090.	2.0	116
30	Mesenchymal Stem Cell-Derived Exosomes Provide Neuroprotection and Improve Long-Term Neurologic Outcomes in a Swine Model of Traumatic Brain Injury and Hemorrhagic Shock. Journal of Neurotrauma, 2019, 36, 54-60.	3.4	116
31	E-Selectin in Focal Cerebral Ischemia and Reperfusion in the Rat. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 1126-1136.	4.3	111
32	MicroRNA-146a Mimics Reduce the Peripheral Neuropathy in Type 2 Diabetic Mice. Diabetes, 2017, 66, 3111-3121.	0.6	110
33	MiR-126 Mediates Brain Endothelial Cell Exosome Treatmentâ€“Induced Neurorestorative Effects After Stroke in Type 2 Diabetes Mellitus Mice. Stroke, 2019, 50, 2865-2874.	2.0	110
34	Plasticity and remodeling of brain. Journal of the Neurological Sciences, 2008, 265, 97-101.	0.6	109
35	White Matter Damage and the Effect of Matrix Metalloproteinases in Type 2 Diabetic Mice After Stroke. Stroke, 2011, 42, 445-452.	2.0	103
36	Bloodâ€“Brain Barrier Disruption, Vascular Impairment, and Ischemia/Reperfusion Damage in Diabetic Stroke. Journal of the American Heart Association, 2017, 6, .	3.7	100

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37	Mechanisms Underlying Improved Recovery of Neurological Function After Stroke in the Rodent After Treatment With Neurorestorative Cell-Based Therapies. Stroke, 2009, 40, S143-5.	2.0	97
38	The heterogeneous temporal evolution of focal ischemic neuronal damage in the rat. Acta Neuropathologica, 1993, 85, 327-33.	7.7	95
39	Increasing tPA Activity in Astrocytes Induced by Multipotent Mesenchymal Stromal Cells Facilitate Neurite Outgrowth after Stroke in the Mouse. PLoS ONE, 2010, 5, e9027.	2.5	94
40	White matter damage and glymphatic dysfunction in a model of vascular dementia in rats with no prior vascular pathologies. Neurobiology of Aging, 2017, 50, 96-106.	3.1	93
41	Remodeling of the Corticospinal Innervation and Spontaneous Behavioral Recovery After Ischemic Stroke in Adult Mice. Stroke, 2009, 40, 2546-2551.	2.0	87
42	Fingolimod treatment promotes proliferation and differentiation of oligodendrocyte progenitor cells in mice with experimental autoimmune encephalomyelitis. Neurobiology of Disease, 2015, 76, 57-66.	4.4	87
43	Cell-based and pharmacological neurorestorative therapies for ischemic stroke. Neuropharmacology, 2018, 134, 310-322.	4.1	83
44	Cerebrospinal Fluid Pulse Wave Form Analysis during Hypercapnia and Hypoxia. Neurosurgery, 1981, 9, 14-27.	1.1	82
45	Unsupervised segmentation of multiparameter MRI in experimental cerebral ischemia with comparison to T2, diffusion, and ADC MRI parameters and histopathological validation. Journal of Magnetic Resonance Imaging, 2000, 11, 425-437.	3.4	81
46	Exosomes Derived From Schwann Cells Ameliorate Peripheral Neuropathy in Type 2 Diabetic Mice. Diabetes, 2020, 69, 749-759.	0.6	80
47	Stroke Increases Neural Stem Cells and Angiogenesis in the Neurogenic Niche of the Adult Mouse. PLoS ONE, 2014, 9, e113972.	2.5	80
48	Bone Marrow Stromal Cells Promote Skilled Motor Recovery and Enhance Contralesional Axonal Connections After Ischemic Stroke in Adult Mice. Stroke, 2011, 42, 740-744.	2.0	78
49	MicroRNA-146a Promotes Oligodendrogenesis in Stroke. Molecular Neurobiology, 2017, 54, 227-237.	4.0	77
50	The diabetic brain and cognition. Journal of Neural Transmission, 2017, 124, 1431-1454.	2.8	77
51	Prolonged deterioration of ischemic brain energy metabolism and acidosis associated with hyperglycemia: Human cerebral infarction studied by serial ³¹P NMR spectroscopy. Annals of Neurology, 1988, 23, 416-418.	5.3	76
52	Diabetes Mellitus Impairs Cognitive Function in Middle-Aged Rats and Neurological Recovery in Middle-Aged Rats After Stroke. Stroke, 2016, 47, 2112-2118.	2.0	76
53	Focal embolic cerebral ischemia in the rat. Nature Protocols, 2015, 10, 539-547.	12.0	73
54	Photodynamic therapy of U87 human glioma in nude rat using liposome-delivered photofrin. , 1998, 22, 74-80.		69

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55	Exosomes derived from bone marrow mesenchymal stromal cells promote remyelination and reduce neuroinflammation in the demyelinating central nervous system. Experimental Neurology, 2022, 347, 113895.	4.1	66
56	T1 and magnetization transfer at 7 Tesla in acute ischemic infarct in the rat. Magnetic Resonance in Medicine, 1999, 41, 696-705.	3.0	65
57	Exosomes as Tools to Suppress Primary Brain Tumor. Cellular and Molecular Neurobiology, 2016, 36, 343-352.	3.3	65
58	Mesenchymal Stem Cellâ€“Derived Exosomes Improve Functional Recovery in Rats After Traumatic Brain Injury: A Dose-Response and Therapeutic Window Study. Neurorehabilitation and Neural Repair, 2020, 34, 616-626.	2.9	65
59	MiR-17-92 enriched exosomes derived from multipotent mesenchymal stromal cells enhance axon-myelin remodeling and motor electrophysiological recovery after stroke. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 1131-1144.	4.3	62
60	Promoting brain remodeling to aid in stroke recovery. Trends in Molecular Medicine, 2015, 21, 543-548.	6.7	61
61	Function of neural stem cells in ischemic brain repair processes. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 2034-2043.	4.3	60
62	Emerging potential of exosomes and noncoding microRNAs for the treatment of neurological injury/diseases. Expert Opinion on Emerging Drugs, 2015, 20, 523-526.	2.4	59
63	Neurorestorative Therapy of Stroke in Type 2 Diabetes Mellitus Rats Treated With Human Umbilical Cord Blood Cells. Stroke, 2015, 46, 2599-2606.	2.0	59
64	MiR-126 Contributes to Human Umbilical Cord Blood Cell-Induced Neurorestorative Effects After Stroke in Type-2 Diabetic Mice. Stem Cells, 2016, 34, 102-113.	3.2	58
65	Photodynamic Therapy of 9L Gliosarcoma with Liposomeâ€Delivered Photofrin. Photochemistry and Photobiology, 1997, 65, 701-706.	2.5	57
66	miR-145 Regulates Diabetes-Bone Marrow Stromal Cell-Induced Neurorestorative Effects in Diabetes Stroke Rats. Stem Cells Translational Medicine, 2016, 5, 1656-1667.	3.3	55
67	Thymosin Î²4 Up-regulation of MicroRNA-146a Promotes Oligodendrocyte Differentiation and Suppression of the Toll-like Proinflammatory Pathway. Journal of Biological Chemistry, 2014, 289, 19508-19518.	3.4	54
68	Degree of corticospinal tract damage correlates with motor function after stroke. Annals of Clinical and Translational Neurology, 2014, 1, 891-899.	3.7	54
69	MiR-146a promotes remyelination in a cuprizone model of demyelinating injury. Neuroscience, 2017, 348, 252-263.	2.3	52
70	Multifaceted roles of pericytes in central nervous system homeostasis and disease. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1381-1401.	4.3	52
71	Exosome-mediated amplification of endogenous brain repair mechanisms and brain and systemic organ interaction in modulating neurological outcome after stroke. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 2165-2178.	4.3	51
72	Article Commentary: Who's in Favor of Translational Cell Therapy for Stroke: STEPS Forward Please?. Cell Transplantation, 2009, 18, 691-693.	2.5	50

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73	Deficiency of Brain ATP-Binding Cassette Transporter A-1 Exacerbates Bloodâ€"Brain Barrier and White Matter Damage After Stroke. Stroke, 2015, 46, 827-834.	2.0	50
74	Role of microRNA-126 in vascular cognitive impairment in mice. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 2497-2511.	4.3	49
75	Exosomes derived from bone marrow mesenchymal stem cells harvested from type two diabetes rats promotes neurorestorative effects after stroke in type two diabetes rats. Experimental Neurology, 2020, 334, 113456.	4.1	49
76	Exosomes derived from highâ€glucoseâ€stimulated Schwann cells promote development of diabetic peripheral neuropathy. FASEB Journal, 2018, 32, 6911-6922.	0.5	48
77	Experimental animal models and inflammatory cellular changes in cerebral ischemic and hemorrhagic stroke. Neuroscience Bulletin, 2015, 31, 717-734.	2.9	47
78	Modeling glymphatic system of the brain using MRI. NeuroImage, 2019, 188, 616-627.	4.2	46
79	Treatment of diabetic peripheral neuropathy with engineered mesenchymal stromal cell-derived exosomes enriched with microRNA-146a provide amplified therapeutic efficacy. Experimental Neurology, 2021, 341, 113694.	4.1	45
80	<scp>HUCBC</scp>s Increase Angiopoietin 1 and Induce Neurorestorative Effects after Stroke in T1<scp>DM</scp> Rats. CNS Neuroscience and Therapeutics, 2014, 20, 935-944.	3.9	44
81	Emerging role of microRNAs in ischemic stroke with comorbidities. Experimental Neurology, 2020, 331, 113382.	4.1	44
82	MicroRNA 146a locally mediates distal axonal growth of dorsal root ganglia neurons under high glucose and sildenafil conditions. Neuroscience, 2016, 329, 43-53.	2.3	43
83	Brainâ€"kidney interaction: Renal dysfunction following ischemic stroke. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 246-262.	4.3	43
84	Mild traumatic brain injury (MTBI) leads to spatial learning deficits. Brain Injury, 2012, 26, 151-165.	1.2	42
85	Subacute intranasal administration of tissue plasminogen activator increases functional recovery and axonal remodeling after stroke in rats. Neurobiology of Disease, 2012, 45, 804-809.	4.4	42
86	Sildenafil Treatment of Subacute Ischemic Stroke: A Safety Study at 25-mg Daily for 2 Weeks. Journal of Stroke and Cerebrovascular Diseases, 2009, 18, 381-383.	1.6	41
87	Sildenafil Ameliorates Long Term Peripheral Neuropathy in Type II Diabetic Mice. PLoS ONE, 2015, 10, e0118134.	2.5	41
88	MicroRNAs in the axon locally mediate the effects of chondroitin sulfate proteoglycans and cGMP on axonal growth. Developmental Neurobiology, 2015, 75, 1402-1419.	3.0	41
89	Immune Response Mediates Cardiac Dysfunction after Traumatic Brain Injury. Journal of Neurotrauma, 2019, 36, 619-629.	3.4	41
90	Clinical Cell Therapy Guidelines for Neurorestoration (IANR/CANR 2017). Cell Transplantation, 2018, 27, 310-324.	2.5	40

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91	Time Course of Postischemic Intracellular Alkalosis Reflects the Duration of Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1990, 10, 860-865.	4.3	39
92	Neurorestorative Responses to Delayed Human Mesenchymal Stromal Cells Treatment of Stroke in Type 2 Diabetic Rats. Stroke, 2016, 47, 2850-2858.	2.0	38
93	MiR-17â€“92 Cluster-Enriched Exosomes Derived from Human Bone Marrow Mesenchymal Stromal Cells Improve Tissue and Functional Recovery in Rats after Traumatic Brain Injury. Journal of Neurotrauma, 2021, 38, 1535-1550.	3.4	38
94	Long noncoding RNA mediates stroke-induced neurogenesis. Stem Cells, 2020, 38, 973-985.	3.2	37
95	Histone deacetylase expression in white matter oligodendrocytes after stroke. Neurochemistry International, 2014, 77, 17-23.	3.8	36
96	Treatment of traumatic brain injury in rats with N-acetyl-seryl-aspartyl-lysyl-proline. Journal of Neurosurgery, 2017, 126, 782-795.	1.6	36
97	Role of the glymphatic system in ageing and diabetes mellitus impaired cognitive function. Stroke and Vascular Neurology, 2019, 4, 90-92.	3.3	36
98	Ablation of the microRNAâ€•17â€•92 cluster in neural stem cells diminishes adult hippocampal neurogenesis and cognitive function. FASEB Journal, 2019, 33, 5257-5267.	0.5	36
99	Persistent Cerebrovascular Damage After Stroke in Type Two Diabetic Rats Measured by Magnetic Resonance Imaging. Stroke, 2015, 46, 507-512.	2.0	35
100	Class IIa histone deacetylases affect neuronal remodeling and functional outcome after stroke. Neurochemistry International, 2016, 96, 24-31.	3.8	35
101	Inflammatory responses mediate brainâ€“heart interaction after ischemic stroke in adult mice. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1213-1229.	4.3	35
102	Axonal Remodeling of the Corticospinal Tract in the Spinal Cord Contributes to Voluntary Motor Recovery After Stroke in Adult Mice. Stroke, 2013, 44, 1951-1956.	2.0	34
103	MiR-146a promotes oligodendrocyte progenitor cell differentiation and enhances remyelination in a model of experimental autoimmune encephalomyelitis. Neurobiology of Disease, 2019, 125, 154-162.	4.4	34
104	Human Placenta-Derived Adherent Cell Treatment of Experimental Stroke Promotes Functional Recovery after Stroke in Young Adult and Older Rats. PLoS ONE, 2014, 9, e86621.	2.5	34
105	Photodynamic therapy using Photofrin in combination with buthionine sulfoximine (BSO) to treat 9L gliosarcoma in rat brain. , 1998, 23, 161-166.		33
106	The role of protein kinase CÎ± in Uâ€87 glioma invasion. International Journal of Developmental Neuroscience, 1999, 17, 447-461.	1.6	33
107	Ischemic Cerebral Endothelial Cellâ€“Derived Exosomes Promote Axonal Growth. Stroke, 2020, 51, 3701-3712.	2.0	33
108	Waste Clearance in the Brain. Frontiers in Neuroanatomy, 2021, 15, 665803.	1.7	32

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109	In vivo evaluation of intracellular pH and high-energy phosphate metabolities during regional myocardial ischemia in cats using31P nuclear magnetic resonance. Magnetic Resonance in Medicine, 1986, 3, 262-269.	3.0	31
110	Combination of Surgical Resection and Photodynamic Therapy of 9L Gliosarcoma in the Nude Rat. Photochemistry and Photobiology, 2006, 82, 1704-1711.	2.5	31
111	Stroke Induces Nuclear Shuttling of Histone Deacetylase 4. Stroke, 2015, 46, 1909-1915.	2.0	31
112	MRI detection of impairment of glymphatic function in rat after mild traumatic brain injury. Brain Research, 2020, 1747, 147062.	2.2	31
113	Thymosin beta 4 upâ€regulates miRâ€200a expression and induces differentiation and survival of rat brain progenitor cells. Journal of Neurochemistry, 2016, 136, 118-132.	3.9	30
114	Identification of miRNomes associated with adult neurogenesis after stroke using Argonaute 2-based RNA sequencing. RNA Biology, 2017, 14, 488-499.	3.1	30
115	Epigenetics in Stroke Recovery. Genes, 2017, 8, 89.	2.4	30
116	Angiopoietin-1 Mimetic Peptide Promotes Neuroprotection after Stroke in Type 1 Diabetic Rats. Cell Transplantation, 2018, 27, 1744-1752.	2.5	29
117	Subacute Intranasal Administration of Tissue Plasminogen Activator Promotes Neuroplasticity and Improves Functional Recovery following Traumatic Brain Injury in Rats. PLoS ONE, 2014, 9, e106238.	2.5	29
118	Neural Stem Cells and Ischemic Brain. Journal of Stroke, 2016, 18, 267-272.	3.2	29
119	D-4F Decreases White Matter Damage After Stroke in Mice. Stroke, 2016, 47, 214-220.	2.0	27
120	CD133+Exosome Treatment Improves Cardiac Function after Stroke in Type 2 Diabetic Mice. Translational Stroke Research, 2021, 12, 112-124.	4.2	27
121	Magnetization transfer MRI: Application to treatment of middle cerebral artery occlusion in rat. Journal of Magnetic Resonance Imaging, 2001, 13, 178-184.	3.4	26
122	ABCA1/ApoE/HDL Pathway Mediates GW3965-Induced Neurorestoration After Stroke. Stroke, 2017, 48, 459-467.	2.0	26
123	Sildenafil treatment of vascular dementia in aged rats. Neurochemistry International, 2019, 127, 103-112.	3.8	26
124	ABCA1/ApoE/HDL Signaling Pathway Facilitates Myelination and Oligodendrogenesis after Stroke. International Journal of Molecular Sciences, 2020, 21, 4369.	4.1	26
125	MiR-34a Regulates Axonal Growth of Dorsal Root Ganglia Neurons by Targeting FOXP2 and VAT1 in Postnatal and Adult Mouse. Molecular Neurobiology, 2018, 55, 9089-9099.	4.0	25
126	Photodynamic Therapy of Human Glioma (U87) in the Nude Rat. Photochemistry and Photobiology, 1996, 64, 707-711.	2.5	24

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127	MRI investigation of glymphatic responses to Gdâ€ĐTPA infusion rates. Journal of Neuroscience Research, 2018, 96, 1876-1886.	2.9	23
128	Cerebrolysin dose-dependently improves neurological outcome in rats after acute stroke: A prospective, randomized, blinded, and placebo-controlled study. International Journal of Stroke, 2016, 11, 347-355.	5.9	22
129	MiR-29c/PRKCI Regulates Axonal Growth of Dorsal Root Ganglia Neurons Under Hyperglycemia. Molecular Neurobiology, 2018, 55, 851-858.	4.0	22
130	Emerging Roles of microRNAs as Biomarkers and Therapeutic Targets for Diabetic Neuropathy. Frontiers in Neurology, 2020, 11, 558758.	2.4	21
131	Magnetic Resonance Imaging and Modeling of the Glymphatic System. Diagnostics, 2020, 10, 344.	2.6	21
132	D-4F increases microRNA-124a and reduces neuroinflammation in diabetic stroke rats. Oncotarget, 2017, 8, 95481-95494.	1.8	21
133	Remodeling dendritic spines for treatment of traumatic brain injury. Neural Regeneration Research, 2019, 14, 1477.	3.0	21
134	EFFECTS OF LIGHT BEAM SIZE ON FLUENCE DISTRIBUTION AND DEPTH OF NECROSIS IN SUPERFICIALLY APPLIED PHOTODYNAMIC THERAPY OF NORMAL RAT BRAIN. Photochemistry and Photobiology, 1992, 56, 379-384.	2.5	20
135	Down-regulation of Nogo-A by collagen scaffolds impregnated with bone marrow stromal cell treatment after traumatic brain injury promotes axonal regeneration in rats. Brain Research, 2014, 1542, 41-48.	2.2	20
136	Thymosin beta4 promotes oligodendrogenesis in the demyelinating central nervous system. Neurobiology of Disease, 2016, 88, 85-95.	4.4	20
137	Extracellular vesicles derived from bone marrow mesenchymal stem cells enhance myelin maintenance after cortical injury in aged rhesus monkeys. Experimental Neurology, 2021, 337, 113540.	4.1	20
138	Photoactivated Photofrin II: Astrocytic Swelling Precedes Endothelial Injury in Rat Brain. Journal of Neuropathology and Experimental Neurology, 1992, 51, 91-100.	1.7	19
139	Deficiency of Endothelial Nitric Oxide Synthase (eNOS) Exacerbates Brain Damage and Cognitive Deficit in A Mouse Model of Vascular Dementia. , 2021, 12, 732.		19
140	Circulating Extracellular Vesicles in Stroke Patients Treated With Mesenchymal Stem Cells: A Biomarker Analysis of a Randomized Trial. Stroke, 2022, 53, 2276-2286.	2.0	19
141	Treatment of Traumatic Brain Injury with Vepoloxamer (Purified Poloxamer 188). Journal of Neurotrauma, 2018, 35, 661-670.	3.4	18
142	Cerebrolysin Reduces Astrogliosis and Axonal Injury and Enhances Neurogenesis in Rats After Closed Head Injury. Neurorehabilitation and Neural Repair, 2019, 33, 15-26.	2.9	18
143	Deficiency of tPA Exacerbates White Matter Damage, Neuroinflammation, Glymphatic Dysfunction and Cognitive Dysfunction in Aging Mice. , 2019, 10, 770.		18
144	Spleen associated immune-response mediates brain-heart interaction after intracerebral hemorrhage. Experimental Neurology, 2020, 327, 113209.	4.1	18

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145	MRI of Bloodâ€“Brain Barrier Permeability in Cerebral Ischemia. Translational Stroke Research, 2012, 3, 56-64.	4.2	17
146	Therapeutic Benefit of Extended ThymosinÎ²4 Treatment Is Independent of Blood Glucose Level in Mice with Diabetic Peripheral Neuropathy. Journal of Diabetes Research, 2015, 2015, 1-13.	2.3	17
147	White matter changes after stroke in type 2 diabetic rats measured by diffusion magnetic resonance imaging. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 241-251.	4.3	17
148	Brain-Derived Microparticles (BDMPs) Contribute to Neuroinflammation and Lactadherin Reduces BDMP Induced Neuroinflammation and Improves Outcome After Stroke. Frontiers in Immunology, 2019, 10, 2747.	4.8	17
149	New Mechanistic Insights, Novel Treatment Paradigms, and Clinical Progress in Cerebrovascular Diseases. Frontiers in Aging Neuroscience, 2021, 13, 623751.	3.4	17
150	Tadalafil Promotes the Recovery of Peripheral Neuropathy in Type II Diabetic Mice. PLoS ONE, 2016, 11, e0159665.	2.5	17
151	The Effect of Hypothermia and Hyperthermia on Photodynamic Therapy of Normal Brain. Neurosurgery, 1995, 36, 141-146.	1.1	16
152	Thymosin Î²4 as a restorative/regenerative therapy for neurological injury and neurodegenerative diseases. Expert Opinion on Biological Therapy, 2015, 15, 9-12.	3.1	16
153	Thymosins in multiple sclerosis and its experimental models: moving from basic to clinical application. Multiple Sclerosis and Related Disorders, 2019, 27, 52-60.	2.0	16
154	Treatment with an Angiopoietinâ€1 mimetic peptide promotes neurological recovery after stroke in diabetic rats. CNS Neuroscience and Therapeutics, 2021, 27, 48-59.	3.9	16
155	MicroRNA-214 enriched exosomes from human cerebral endothelial cells (hCEC) sensitize hepatocellular carcinoma to anti-cancer drugs. Oncotarget, 2021, 12, 185-198.	1.8	16
156	Axonal remodeling of the corticospinal tract during neurological recovery after stroke. Neural Regeneration Research, 2021, 16, 939.	3.0	16
157	Measurement of myeloperoxidase immunoreactive cells in ischemic brain after transient middle cerebral artery occlusion in the rat. Neuroscience Research Communications, 1997, 20, 85-91.	0.2	15
158	A parametric model of the brain vascular system for estimation of the arterial input function (AIF) at the tissue level. NMR in Biomedicine, 2017, 30, e3695.	2.8	15
159	Influence of Sex on Cognition and Peripheral Neurovascular Function in Diabetic Mice. Frontiers in Neuroscience, 2018, 12, 795.	2.8	15
160	Intracerebral Hemorrhage Induces Cardiac Dysfunction in Mice Without Primary Cardiac Disease. Frontiers in Neurology, 2018, 9, 965.	2.4	15
161	Distal Axonal Proteins and Their Related MiRNAs in Cultured Cortical Neurons. Molecular Neurobiology, 2019, 56, 2703-2713.	4.0	15
162	A Small Molecule Spinogenic Compound Enhances Functional Outcome and Dendritic Spine Plasticity in a Rat Model of Traumatic Brain Injury. Journal of Neurotrauma, 2019, 36, 589-600.	3.4	15

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163	Vepoloxamer Enhances Fibrinolysis of tPA (Tissue-Type Plasminogen Activator) on Acute Ischemic Stroke. Stroke, 2019, 50, 3600-3608.	2.0	15
164	Immune response mediates the cardiac damage after subarachnoid hemorrhage. Experimental Neurology, 2020, 323, 113093.	4.1	15
165	PDE5 inhibitors promote recovery of peripheral neuropathy in diabetic mice. Neural Regeneration Research, 2017, 12, 218.	3.0	15
166	Thymosin Î²4 for the treatment of acute stroke in aged rats. Neuroscience Letters, 2017, 659, 7-13.	2.1	13
167	APX3330 Promotes Neurorestorative Effects after Stroke in Type One Diabetic Rats. , 2018, 9, 453.		13
168	In vivo 31-P NMR of photoactivated hematoporphyrin derivative in cat brain. Medical Physics, 1985, 12, 256-258.	3.0	12
169	PHOTODYNAMIC THERAPY OF NORMAL CEREBRAL TISSUE IN THE CAT: A NONINVASIVE MODEL FOR CEREBROVASCULAR THROMBOSIS. Photochemistry and Photobiology, 1987, 46, 103-108.	2.5	12
170	Overexpression of miR-145 in U87 cells reduces glioma cell malignant phenotype and promotes survival after in vivo implantation. International Journal of Oncology, 2015, 46, 1031-1038.	3.3	12
171	An extended vascular model for less biased estimation of permeability parameters in DCEâ€T1 images. NMR in Biomedicine, 2017, 30, e3698.	2.8	12
172	Administration of Downstream ApoE Attenuates the Adverse Effect of Brain ABCA1 Deficiency on Stroke. International Journal of Molecular Sciences, 2018, 19, 3368.	4.1	12
173	Prospective, double blinded, comparative assessment of the pharmacological activity of Cerebrolysin and distinct peptide preparations for the treatment of embolic stroke. Journal of the Neurological Sciences, 2019, 398, 22-26.	0.6	12
174	miR-146a mediates thymosin Î²4 induced neurovascular remodeling of diabetic peripheral neuropathy in type-II diabetic mice. Brain Research, 2019, 1707, 198-207.	2.2	12
175	Proteomic Profiles of Exosomes of Septic Patients Presenting to the Emergency Department Compared to Healthy Controls. Journal of Clinical Medicine, 2020, 9, 2930.	2.4	12
176	Cerebral endothelial cell-derived small extracellular vesicles enhance neurovascular function and neurological recovery in rat acute ischemic stroke models of mechanical thrombectomy and embolic stroke treatment with tPA. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 0271678X2199298.	4.3	12
177	Cell Treatment for Stroke in Type Two Diabetic Rats Improves Vascular Permeability Measured by MRI. PLoS ONE, 2016, 11, e0149147.	2.5	11
178	N-Acetyl-Seryl-Aspartyl-Lysyl-Proline Augments Thrombolysis of tPA (Tissue-Type Plasminogen) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	2.0	10
179	HUCBC Treatment Improves Cognitive Outcome in Rats With Vascular Dementia. Frontiers in Aging Neuroscience, 2020, 12, 258.	3.4	10
180	Epigenetic Mechanisms Underlying Adult Post Stroke Neurogenesis. International Journal of Molecular Sciences, 2020, 21, 6179.	4.1	10

#	Article	IF	Citations
181	Resting state fMRI connectivity analysis as a tool for detection of abnormalities in five different cognitive networks of the brain in MS patients. Clinical Case Reports and Reviews, 2016, 2, 464-471.	0.1	10
182	Aging-Related Alterations of Glymphatic Transport in Rat: In vivo Magnetic Resonance Imaging and Kinetic Study. Frontiers in Aging Neuroscience, 2022, 14, 841798.	3.4	10
183	Diffusion-Derived Magnetic Resonance Imaging Measures of Longitudinal Microstructural Remodeling Induced by Marrow Stromal Cell Therapy after Traumatic Brain Injury. Journal of Neurotrauma, 2017, 34, 182-191.	3.4	9
184	Plasminogen Deficiency Causes Reduced Corticospinal Axonal Plasticity and Functional Recovery after Stroke in Mice. PLoS ONE, 2014, 9, e94505.	2.5	9
185	An Analytical Model for Estimating Water Exchange Rate in White Matter Using Diffusion MRI. PLoS ONE, 2014, 9, e95921.	2.5	8
186	Density-Dependent Regulation of Glioma Cell Proliferation and Invasion Mediated by miR-9. Cancer Microenvironment, 2016, 9, 149-159.	3.1	8
187	Subacute intranasal administration of tissue plasminogen activator improves stroke recovery by inducing axonal remodeling in mice. Experimental Neurology, 2018, 304, 82-89.	4.1	8
188	RP001 hydrochloride improves neurological outcome after subarachnoid hemorrhage. Journal of the Neurological Sciences, 2019, 399, 6-14.	0.6	8
189	Targeted tPA overexpression in denervated spinal motor neurons promotes stroke recovery in mice. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 92-104.	4.3	8
190	Demonstration of therapeutic window of Cerebrolysin in embolic stroke: A prospective, randomized, blinded, and placebo-controlled study. International Journal of Stroke, 2017, 12, 628-635.	5.9	7
191	SUMO1 Deficiency Exacerbates Neurological and Cardiac Dysfunction after Intracerebral Hemorrhage in Aged Mice. Translational Stroke Research, 2021, 12, 631-642.	4.2	7
192	Cardiac Dysfunction in a Mouse Vascular Dementia Model of Bilateral Common Carotid Artery Stenosis. Frontiers in Cardiovascular Medicine, 2021, 8, 681572.	2.4	7
193	Reactive astrocytes promote axonal remodeling and neurological recovery after stroke. Neural Regeneration Research, 2014, 9, 1874.	3.0	7
194	Perfusion and Diffusion Abnormalities of Multiple Sclerosis Lesions and Relevance of Classified Lesions to Disease Status. Journal of Neurology & Neurophysiology, 2013, s12, 12.	0.1	6
195	Mesenchymal Stromal Cells Promote Axonal Outgrowth Alone and Synergistically with Astrocytes via tPA. PLoS ONE, 2016, 11, e0168345.	2.5	6
196	ApoA-I Mimetic Peptide Reduces Vascular and White Matter Damage After Stroke in Type-2 Diabetic Mice. Frontiers in Neuroscience, 2019, 13, 1127.	2.8	6
197	Modifications In Intratumor Microenvironment With PDT. Proceedings of SPIE, 1989, 1065, 41.	0.8	5
198	Differences between normal and diabetic brains in middle-aged rats by MRI. Brain Research, 2019, 1724, 146407.	2.2	5

#	Article	IF	Citations
199	Magnetic Resonance Imaging of Stroke in the Rat. Bopuxue Zazhi, 2014, 31, 116-132.	1.0	5
200	Treatment With an Angiopoietin-1 Mimetic Peptide Improves Cognitive Outcome in Rats With Vascular Dementia. Frontiers in Cellular Neuroscience, 2022, 16, .	3.7	5
201	Should the premed requirements in physics be changed?. American Journal of Physics, 1979, 47, 331-336.	0.7	4
202	Chronic global analysis of vascular permeability and cerebral blood flow after bone marrow stromal cell treatment of traumatic brain injury in the rat: A long-term MRI study. Brain Research, 2017, 1675, 61-70.	2.2	4
203	Angiopoietin-1/Tie2 signaling pathway contributes to the therapeutic effect of thymosin Î²4 on diabetic peripheral neuropathy. Neuroscience Research, 2019, 147, 1-8.	1.9	4
204	Plasminogen deficiency causes reduced angiogenesis and behavioral recovery after stroke in mice. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2583-2592.	4.3	4
205	Exosome treatment for stroke with diabetic comorbidity. Neural Regeneration Research, 2022, 17, 315.	3.0	4
206	Abstract WMP46: Exosomes Derived From Bone Marrow Mesenchymal Stem Cells of Type Two Diabetes Rats Promotes Neurorestoration After Stroke in Type Two Diabetic Rats. Stroke, 2017, 48, .	2.0	4
207	Post-Stroke Administration of L-4F Promotes Neurovascular and White Matter Remodeling in Type-2 Diabetic Stroke Mice. Frontiers in Neurology, 2022, 13, 863934.	2.4	4
208	Angiogenesis Induced by Photodynamic Therapy in Normal Rat Brain^{Â¶}. Photochemistry and Photobiology, 2004, 79, 494-499.	2.5	3
209	Orchestrating Recovery: Cell-based Therapy for Stroke. Translational Stroke Research, 2011, 2, 241-242.	4.2	3
210	Diffuse white matter response in trauma-injured brain to bone marrow stromal cell treatment detected by diffusional kurtosis imaging. Brain Research, 2019, 1717, 127-135.	2.2	3
211	Transplantation of a new composite of neural cells and marrow stromal cells into rat brain after stroke. Neuroscience Research Communications, 2002, 31, 155-163.	0.2	2
212	Targeting microthrombosis and neuroinflammation with vepoloxamer for therapeutic neuroprotection after traumatic brain injury. Neural Regeneration Research, 2018, 13, 413.	3.0	2
213	MRI Metrics of Cerebral Endothelial Cellâ€“Derived Exosomes for the Treatment of Cognitive Dysfunction Induced in Aging Rats Subjected to Type 2 Diabetes. Diabetes, 2022, 71, 873-880.	0.6	2
214	Baccalaureate program in medical physics. American Journal of Physics, 1978, 46, 386-391.	0.7	1
215	Impairments of white matter tracts and connectivity alterations in five cognitive networks of patients with multiple sclerosis. Clinical Neurology and Neurosurgery, 2021, 201, 106424.	1.4	1
216	Multifaceted roles of pericytes-interorgan interactions. Neural Regeneration Research, 2021, 16, 982.	3.0	1

#	Article	IF	Citations
217	Intranasal tPA Application for Axonal Remodeling in Rodent Stroke and Traumatic Brain Injury Models. Springer Series in Translational Stroke Research, 2019, , 101-115.	0.1	0
218	Delayed (21 Days) Post Stroke Treatment With RPh201, a Botany-Derived Compound, Improves Neurological Functional Recovery in a Rat Model of Embolic Stroke. Frontiers in Neuroscience, 2020, 14, 813.	2.8	0
219	Abstract 2671: Thymosin Beta 4 Induced Oligodendrogenesis Is Associated With Upregulation Of Serum Response Factor. Stroke, 2012, 43, .	2.0	0
220	Abstract WMP38: Neurorestorative Therapy of Stroke in Type One Diabetes Rats with Human Umbilical Cord Blood Cell. Stroke, 2013, 44, .	2.0	0
221	Abstract 156: Tailored Multipotent Mesenchymal Stromal Cell Harvested Exosomes Carrying Elevated miR-17-92 Cluster Enhance Neurovascular Remodeling & Improve Functional Recovery After Stroke in Rats. Stroke, 2017, 48, .	2.0	0
222	Abstract 3053: Combination Niaspan With Bone Marrow Stromal Cell Treatment Of Stroke In Diabetic Rats. Stroke, 2012, 43, .	2.0	0