

Wenjun Xu

List of Publications by Year in descending order

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57
papers

3,879
citations

218677

26
h-index

155660

55
g-index

59
all docs

59
docs citations

59
times ranked

4191
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural stem cells in the adult mammalian forebrain: A relatively quiescent subpopulation of subependymal cells. <i>Neuron</i> , 1994, 13, 1071-1082.	8.1	1,323
2	Hematopoietic competence is a rare property of neural stem cells that may depend on genetic and epigenetic alterations. <i>Nature Medicine</i> , 2002, 8, 268-273.	30.7	381
3	Adult Neural Stem Cells from the Subventricular Zone Give Rise to Reactive Astrocytes in the Cortex after Stroke. <i>Cell Stem Cell</i> , 2015, 17, 624-634.	11.1	235
4	The ablation of glial fibrillary acidic protein-positive cells from the adult central nervous system results in the loss of forebrain neural stem cells but not retinal stem cells. <i>European Journal of Neuroscience</i> , 2003, 18, 76-84.	2.6	206
5	A Hyaluronan-Based Injectable Hydrogel Improves the Survival and Integration of Stem Cell Progeny following Transplantation. <i>Stem Cell Reports</i> , 2015, 4, 1031-1045.	4.8	189
6	Don't Look: Growing Clonal Versus Nonclonal Neural Stem Cell Colonies. <i>Stem Cells</i> , 2008, 26, 2938-2944.	3.2	139
7	Bioengineered sequential growth factor delivery stimulates brain tissue regeneration after stroke. <i>Journal of Controlled Release</i> , 2013, 172, 1-11.	9.9	117
8	Activating Endogenous Neural Precursor Cells Using Metformin Leads to Neural Repair and Functional Recovery in a Model of Childhood Brain Injury. <i>Stem Cell Reports</i> , 2015, 5, 166-173.	4.8	91
9	Incorporation of protein-eluting microspheres into biodegradable nerve guidance channels for controlled release. <i>Journal of Controlled Release</i> , 2006, 110, 400-407.	9.9	79
10	The leading edge: Emerging neuroprotective and neuroregenerative cell-based therapies for spinal cord injury. <i>Stem Cells Translational Medicine</i> , 2020, 9, 1509-1530.	3.3	76
11	Transient Maternal IL-6 Mediates Long-Lasting Changes in Neural Stem Cell Pools by Deregulating an Endogenous Self-Renewal Pathway. <i>Cell Stem Cell</i> , 2013, 13, 564-576.	11.1	75
12	Circumventing the blood-brain barrier: Local delivery of cyclosporin A stimulates stem cells in stroke-injured rat brain. <i>Journal of Controlled Release</i> , 2015, 215, 1-11.	9.9	65
13	Assessment of cognitive and neural recovery in survivors of pediatric brain tumors in a pilot clinical trial using metformin. <i>Nature Medicine</i> , 2020, 26, 1285-1294.	30.7	65
14	Home sweet home: the neural stem cell niche throughout development and after injury. <i>Cell and Tissue Research</i> , 2018, 371, 125-141.	2.9	55
15	Age- and sex-dependent effects of metformin on neural precursor cells and cognitive recovery in a model of neonatal stroke. <i>Science Advances</i> , 2019, 5, eaax1912.	10.3	51
16	Injectable hydrogel enables local and sustained co-delivery to the brain: Two clinically approved biomolecules, cyclosporine and erythropoietin, accelerate functional recovery in rat model of stroke. <i>Biomaterials</i> , 2020, 235, 119794.	11.4	44
17	Primitive Neural Stem Cells in the Adult Mammalian Brain Give Rise to GFAP-Expressing Neural Stem Cells. <i>Stem Cell Reports</i> , 2014, 2, 810-824.	4.8	42
18	Local Delivery of Brain-Derived Neurotrophic Factor Enables Behavioral Recovery and Tissue Repair in Stroke-Injured Rats. <i>Tissue Engineering - Part A</i> , 2019, 25, 1175-1187.	3.1	40

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19	Initial cell maturity changes following transplantation in a hyaluronan-based hydrogel and impacts therapeutic success in the stroke-injured rodent brain. <i>Biomaterials</i> , 2019, 192, 309-322.	11.4	36
20	Transplantation of Directly Reprogrammed Human Neural Precursor Cells Following Stroke Promotes Synaptogenesis and Functional Recovery. <i>Translational Stroke Research</i> , 2020, 11, 93-107.	4.2	36
21	Cyclosporin A enhances neural precursor cell survival in mice through a calcineurin-independent pathway. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 953-961.	2.4	33
22	Neural stem and progenitor cells in the aged subependyma are activated by the young niche. <i>Neurobiology of Aging</i> , 2014, 35, 1669-1679.	3.1	33
23	<i>In Vitro</i> Maturation of Human iPSC-Derived Neuroepithelial Cells Influences Transplant Survival in the Stroke-Injured Rat Brain. <i>Tissue Engineering - Part A</i> , 2018, 24, 351-360.	3.1	32
24	Biphasic monopolar electrical stimulation induces rapid and directed galvanotaxis in adult subependymal neural precursors. <i>Stem Cell Research and Therapy</i> , 2015, 6, 67.	5.5	31
25	Environmental Factors That Influence Stem Cell Migration: An "Electric Field". <i>Stem Cells International</i> , 2017, 2017, 1-9.	2.5	31
26	Assessing cognitive function following medial prefrontal stroke in the rat. <i>Behavioural Brain Research</i> , 2015, 294, 102-110.	2.2	28
27	Regulating Endogenous Neural Stem Cell Activation to Promote Spinal Cord Injury Repair. <i>Cells</i> , 2022, 11, 846.	4.1	26
28	Examining the fundamental biology of a novel population of directly reprogrammed human neural precursor cells. <i>Stem Cell Research and Therapy</i> , 2019, 10, 166.	5.5	24
29	Dual embryonic origin of the mammalian enteric nervous system. <i>Developmental Biology</i> , 2019, 445, 256-270.	2.0	23
30	Building a central nervous system: The neural stem cell lineage revealed. <i>Neurogenesis (Austin, Tex)</i> , 2017, 4, e1300037.	1.5	22
31	Enriched rehabilitation promotes motor recovery in rats exposed to neonatal hypoxia-ischemia. <i>Behavioural Brain Research</i> , 2016, 304, 42-50.	2.2	21
32	Quiescent Oct4+ Neural Stem Cells (NSCs) Repopulate Ablated Glial Fibrillary Acidic Protein+ NSCs in the Adult Mouse Brain. <i>Stem Cells</i> , 2017, 35, 2071-2082.	3.2	21
33	Adult Neural Stem Cells: Attempting to Solve the Identity Crisis. <i>Developmental Neuroscience</i> , 2004, 26, 93-100.	2.0	19
34	Myelin Basic Protein Regulates Primitive and Definitive Neural Stem Cell Proliferation from the Adult Spinal Cord. <i>Stem Cells</i> , 2017, 35, 485-496.	3.2	18
35	Charge-Balanced Electrical Stimulation Can Modulate Neural Precursor Cell Migration in the Presence of Endogenous Electric Fields in Mouse Brains. <i>ENeuro</i> , 2019, 6, ENEURO.0382-19.2019.	1.9	18
36	Cyclosporin A enhances neurogenesis in the dentate gyrus of the hippocampus. <i>Stem Cell Research</i> , 2016, 16, 79-87.	0.7	17

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37	Cyclosporin A-Mediated Activation of Endogenous Neural Precursor Cells Promotes Cognitive Recovery in a Mouse Model of Stroke. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 93.	3.4	17
38	Neural stem cell heterogeneity in the mammalian forebrain. <i>Progress in Neurobiology</i> , 2018, 170, 2-36.	5.7	15
39	Electric Field Application<i>In Vivo</i>Regulates Neural Precursor Cell Behavior in the Adult Mammalian Forebrain. <i>ENeuro</i> , 2020, 7, ENEURO.0273-20.2020.	1.9	13
40	A 3D Printed Device for Low Cost Neural Stimulation in Mice. <i>Frontiers in Neuroscience</i> , 2019, 13, 784.	2.8	11
41	Metformin pretreatment rescues olfactory memory associated with subependymal zone neurogenesis in a juvenile model of cranial irradiation. <i>Cell Reports Medicine</i> , 2021, 2, 100231.	6.5	11
42	Metformin effects on brain development following cranial irradiation in a mouse model. <i>Neuro-Oncology</i> , 2021, 23, 1523-1536.	1.2	10
43	Lineage tracing reveals the hierarchical relationship between neural stem cell populations in the mouse forebrain. <i>Scientific Reports</i> , 2019, 9, 17730.	3.3	9
44	Nicheâ€dependent inhibition of neural stem cell proliferation and oligodendrogenesis is mediated by the presence of myelin basic protein. <i>Stem Cells</i> , 2021, 39, 776-786.	3.2	8
45	Subacute metformin treatment reduces inflammation and improves functional outcome following neonatal hypoxia ischemia. <i>Brain, Behavior, & Immunity - Health</i> , 2020, 7, 100119.	2.5	6
46	A Neurosphere Assay to Evaluate Endogenous Neural Stem Cell Activation in a Mouse Model of Minimal Spinal Cord Injury. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	5
47	Skin-derived precursor cells undergo substrate-dependent galvanotaxis that can be modified by neighbouring cells. <i>Stem Cell Research</i> , 2018, 31, 95-101.	0.7	5
48	Reply to â€œHematopoietic potential of neural stem cellsâ€• <i>Nature Medicine</i> , 2002, 8, 536-537.	30.7	4
49	Transplantation of Human Cortically-Specified Neuroepithelial Progenitor Cells Leads to Improved Functional Outcomes in a Mouse Model of Stroke. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 654290.	3.7	4
50	Cranial irradiation in juvenile mice leads to early and sustained defects in the stem and progenitor cell pools and late cognitive impairments. <i>Brain Research</i> , 2020, 1727, 146548.	2.2	3
51	Substrate-Dependent Galvanotaxis of Directly Reprogrammed Human Neural Precursor Cells. <i>Bioelectricity</i> , 2020, 2, 229-237.	1.1	3
52	Stem cells in the adult CNS revealed: examining their regulation by myelin basic protein. <i>Neural Regeneration Research</i> , 2016, 11, 1916.	3.0	3
53	Constraintâ€induced movement therapy promotes motor recovery after neonatal stroke in the absence of neural precursor activation. <i>European Journal of Neuroscience</i> , 2021, 53, 1334-1349.	2.6	2
54	Stem cell heterogeneity and regenerative competence: the enormous potential of rare cells. <i>Neural Regeneration Research</i> , 2021, 16, 285.	3.0	1

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55	Response to: Where do you come from and what are you going to become, reactive astrocyte?. Stem Cell Investigation, 2016, 3, 32-32.	3.0	0
56	Bioengineering Strategies to Control Neural Stem/Progenitor Cell Differentiation. FASEB Journal, 2009, 23, .	0.5	0
57	Editorial: Regulation of Cellular Reprogramming for Post-stroke Tissue Regeneration: Bridging a Gap Between Basic Research and Clinical Application. Frontiers in Cell and Developmental Biology, 2021, 9, 793900.	3.7	0