

Xiaoqing Zhang

List of Publications by Year in descending order

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81
papers

5,647
citations

172457

29
h-index

79698

73
g-index

83
all docs

83
docs citations

83
times ranked

8926
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypothalamic IKK β /NF κ B and ER Stress Link Overnutrition to Energy Imbalance and Obesity. <i>Cell</i> , 2008, 135, 61-73.	28.9	1,188
2	Neural differentiation of human induced pluripotent stem cells follows developmental principles but with variable potency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4335-4340.	7.1	927
3	Pax6 Is a Human Neuroectoderm Cell Fate Determinant. <i>Cell Stem Cell</i> , 2010, 7, 90-100.	11.1	396
4	A Nuclear Function of β -Arrestin1 in GPCR Signaling: Regulation of Histone Acetylation and Gene Transcription. <i>Cell</i> , 2005, 123, 833-847.	28.9	294
5	Coordination of sonic hedgehog and Wnt signaling determines ventral and dorsal telencephalic neuron types from human embryonic stem cells. <i>Development (Cambridge)</i> , 2009, 136, 4055-4063.	2.5	276
6	Human Embryonic Stem Cell-Derived GABA Neurons Correct Locomotion Deficits in Quinolinic Acid-Lesioned Mice. <i>Cell Stem Cell</i> , 2012, 10, 455-464.	11.1	258
7	Medial ganglionic eminence-like cells derived from human embryonic stem cells correct learning and memory deficits. <i>Nature Biotechnology</i> , 2013, 31, 440-447.	17.5	231
8	iPS cell modeling of Best disease: insights into the pathophysiology of an inherited macular degeneration. <i>Human Molecular Genetics</i> , 2013, 22, 593-607.	2.9	194
9	Deficits in human trisomy 21 iPSCs and neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9962-9967.	7.1	177
10	Induced Pluripotent Stem Cell-Derived Neural Cells Survive and Mature in the Nonhuman Primate Brain. <i>Cell Reports</i> , 2013, 3, 646-650.	6.4	126
11	Differentiation of Neural Precursors and Dopaminergic Neurons from Human Embryonic Stem Cells. <i>Methods in Molecular Biology</i> , 2009, 584, 355-366.	0.9	91
12	Smad2 and Smad3 have differential sensitivity in relaying TGF β signaling and inversely regulate early lineage specification. <i>Scientific Reports</i> , 2016, 6, 21602.	3.3	78
13	Spinal SIRT1 Activation Attenuates Neuropathic Pain in Mice. <i>PLoS ONE</i> , 2014, 9, e100938.	2.5	66
14	Differential regulation of β -arrestin 1 and β -arrestin 2 gene expression in rat brain by morphine. <i>Neuroscience</i> , 2003, 117, 383-389.	2.3	63
15	β -Arrestin1 and β -arrestin2 are differentially required for phosphorylation-dependent and -independent internalization of μ -opioid receptors. <i>Journal of Neurochemistry</i> , 2005, 95, 169-178.	3.9	59
16	Abnormal mitochondrial transport and morphology as early pathological changes in human models of spinal muscular atrophy. <i>DMM Disease Models and Mechanisms</i> , 2015, 9, 39-49.	2.4	53
17	Acute and chronic morphine treatments and morphine withdrawal differentially regulate GRK2 and GRK5 gene expression in rat brain. <i>Neuropharmacology</i> , 2002, 43, 809-816.	4.1	51
18	Recapitulation of spinal motor neuron-specific disease phenotypes in a human cell model of spinal muscular atrophy. <i>Cell Research</i> , 2013, 23, 378-393.	12.0	50

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19	Simultaneous determination of tryptophan and kynurenine in plasma samples of children patients with Kawasaki disease by high-performance liquid chromatography with programmed wavelength ultraviolet detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 1678-1682.	2.3	49
20	Association between serum bile acid profiles and gestational diabetes mellitus: A targeted metabolomics study. <i>Clinica Chimica Acta</i> , 2016, 459, 63-72.	1.1	48
21	Postendocytic fates of μ -opioid receptor are regulated by GRK2-mediated receptor phosphorylation and distinct β -arrestin isoforms. <i>Journal of Neurochemistry</i> , 2008, 106, 781-792.	3.9	41
22	Agonist-induced Formation of Opioid Receptor-G Protein-coupled Receptor Kinase (GRK)-G β γ Complex on Membrane Is Required for GRK2 Function in Vivo. <i>Journal of Biological Chemistry</i> , 2003, 278, 30219-30226.	3.4	40
23	Fibroblast Growth Factor Regulates Human Neuroectoderm Specification Through ERK1/2-PARP-1 Pathway. <i>Stem Cells</i> , 2011, 29, 1975-1982.	3.2	40
24	Efficient CRISPR/Cas9-Mediated Versatile, Predictable, and Donor-Free Gene Knockout in Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2016, 7, 496-507.	4.8	40
25	Chronic morphine treatment and withdrawal induce up-regulation of c-jun n-terminal kinase 3 gene expression in rat brain. <i>Neuroscience</i> , 2003, 122, 997-1002.	2.3	38
26	An electrochemical sensor for indole in plasma based on MWCNTs-chitosan modified screen-printed carbon electrode. <i>Biosensors and Bioelectronics</i> , 2017, 98, 392-397.	10.1	37
27	Smad5 acts as an intracellular pH messenger and maintains bioenergetic homeostasis. <i>Cell Research</i> , 2017, 27, 1083-1099.	12.0	34
28	Diagnostic and therapeutic profiles of serum bile acids in women with intrahepatic cholestasis of pregnancy-a pseudo-targeted metabolomics study. <i>Clinica Chimica Acta</i> , 2018, 483, 135-141.	1.1	34
29	Generation of hypoimmunogenic human pluripotent stem cells via expression of membrane-bound and secreted β 2m-HLA-G fusion proteins. <i>Stem Cells</i> , 2020, 38, 1423-1437.	3.2	34
30	Neonatal Repeated Exposure to Isoflurane not Sevoflurane in Mice Reversibly Impaired Spatial Cognition at Juvenile-Age. <i>Neurochemical Research</i> , 2017, 42, 595-605.	3.3	33
31	Identification of potential microRNA-target pairs associated with osteopetrosis by deep sequencing, iTRAQ proteomics and bioinformatics. <i>European Journal of Human Genetics</i> , 2014, 22, 625-632.	2.8	32
32	The Dorsoventral Patterning of Human Forebrain Follows an Activation/Transformation Model. <i>Cerebral Cortex</i> , 2016, 27, bhv152.	2.9	27
33	Roscovitine, a CDK5 Inhibitor, Alleviates Sevoflurane-Induced Cognitive Dysfunction via Regulation Tau/GSK3 β and ERK/PPAR γ /CREB Signaling. <i>Cellular Physiology and Biochemistry</i> , 2017, 44, 423-435.	1.6	27
34	Protection of ZIKV infection-induced neuropathy by abrogation of acute antiviral response in human neural progenitors. <i>Cell Death and Differentiation</i> , 2019, 26, 2607-2621.	11.2	27
35	Effects of different concentration and duration time of isoflurane on acute and long-term neurocognitive function of young adult C57BL/6 mouse. <i>International Journal of Clinical and Experimental Pathology</i> , 2014, 7, 5828-36.	0.5	27
36	Phosphorylation State of μ -Opioid Receptor Determines the Alternative Recycling of Receptor via Rab4 or Rab11 Pathway. <i>Molecular Endocrinology</i> , 2008, 22, 1881-1892.	3.7	26

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37	Targeted metabolomics of sulfated bile acids in urine for the diagnosis and grading of intrahepatic cholestasis of pregnancy. <i>Genes and Diseases</i> , 2018, 5, 358-366.	3.4	24
38	Transcriptomic mapping uncovers Purkinje neuron plasticity driving learning. <i>Nature</i> , 2022, 605, 722-727.	27.8	24
39	Targeted Differentiation of Regional Ventral Neuroprogenitors and Related Neuronal Subtypes from Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2016, 7, 941-954.	4.8	21
40	Nucleosome eviction along with H3K9ac deposition enhances Sox2 binding during human neuroectodermal commitment. <i>Cell Death and Differentiation</i> , 2017, 24, 1121-1131.	11.2	21
41	Fezf2 Regulates Telencephalic Precursor Differentiation from Mouse Embryonic Stem Cells. <i>Cerebral Cortex</i> , 2011, 21, 2177-2186.	2.9	17
42	Urinary metabolomic analysis of intrahepatic cholestasis of pregnancy based on high performance liquid chromatography/mass spectrometry. <i>Clinica Chimica Acta</i> , 2017, 471, 292-297.	1.1	17
43	WNT/NOTCH Pathway Is Essential for the Maintenance and Expansion of Human MGE Progenitors. <i>Stem Cell Reports</i> , 2019, 12, 934-949.	4.8	17
44	Effects of Sevoflurane on Young Male Adult C57BL/6 Mice Spatial Cognition. <i>PLoS ONE</i> , 2015, 10, e0134217.	2.5	17
45	Dysregulation of the SIRT1/OCT6 Axis Contributes to Environmental Stress-Induced Neural Induction Defects. <i>Stem Cell Reports</i> , 2017, 8, 1270-1286.	4.8	16
46	Genetic Engineering of Human Embryonic Stem Cells for Precise Cell Fate Tracing during Human Lineage Development. <i>Stem Cell Reports</i> , 2018, 11, 1257-1271.	4.8	16
47	Genome-Wide Analysis of DNA Methylation and Antituberculosis Drug-Induced Liver Injury in the Han Chinese Population. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 106, 1389-1397.	4.7	16
48	Capillary electrophoresis with electrochemiluminescence detection for the simultaneous determination of cisatracurium besylate and its degradation products in pharmaceutical preparations. <i>Journal of Separation Science</i> , 2015, 38, 2332-2339.	2.5	15
49	Efficient and Fast Differentiation of Human Neural Stem Cells from Human Embryonic Stem Cells for Cell Therapy. <i>Stem Cells International</i> , 2017, 2017, 1-11.	2.5	15
50	High specificity of spot urinary free metanephrines in diagnosis and prognosis of pheochromocytomas and paragangliomas by HPLC with electrochemical detection. <i>Clinica Chimica Acta</i> , 2018, 478, 82-89.	1.1	13
51	Azide-Dye Unexpected Bone Targeting for Near-Infrared Window II Osteoporosis Imaging. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 11543-11553.	6.4	13
52	Drug screening with human SMN2 reporter identifies SMN protein stabilizers to correct SMA pathology. <i>Life Science Alliance</i> , 2019, 2, e201800268.	2.8	13
53	The urinary bile acid profiling analysis of asymptomatic hypercholanemia of pregnancy: A pseudo-targeted metabolomics study. <i>Clinica Chimica Acta</i> , 2019, 497, 67-75.	1.1	12
54	The Transcriptional Regulator SnoN Promotes the Proliferation of Cerebellar Granule Neuron Precursors in the Postnatal Mouse Brain. <i>Journal of Neuroscience</i> , 2019, 39, 44-62.	3.6	12

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55	Downregulation of CDK5 Restores Sevoflurane-Induced Cognitive Dysfunction by Promoting SIRT1-Mediated Autophagy. <i>Cellular and Molecular Neurobiology</i> , 2020, 40, 955-965.	3.3	12
56	CXCR4/SDF1 signalling promotes sensory neuron clustering in vitro. <i>Biology Open</i> , 2018, 7, .	1.2	10
57	Fentanyl inhibits acute myeloid leukemia differentiated cells and committed progenitors via opioid receptor-independent suppression of Ras and STAT5 pathways. <i>Fundamental and Clinical Pharmacology</i> , 2021, 35, 174-183.	1.9	10
58	Developmental programming and lineage branching of early human telencephalon. <i>EMBO Journal</i> , 2021, 40, e107277.	7.8	10
59	Discovery of Novel Biomarkers of Therapeutic Responses in Han Chinese Pemetrexed-Based Treated Advanced NSCLC Patients. <i>Frontiers in Pharmacology</i> , 2019, 10, 944.	3.5	9
60	Specific expression pattern of a novel Otx2 splicing variant during neural differentiation. <i>Gene</i> , 2013, 523, 33-38.	2.2	8
61	Development of Mitochondria-Targeted Small-Molecule Dyes for Myocardial PET and Fluorescence Bimodal Imaging. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 497-506.	6.4	8
62	Recognition of asymptomatic hypercholanemia of pregnancy: Different clinical features, fetal outcomes and bile acids metabolism from intrahepatic cholestasis of pregnancy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166269.	3.8	7
63	Lithium chloride ameliorates cognition dysfunction induced by sevoflurane anesthesia in rats. <i>FEBS Open Bio</i> , 2020, 10, 251-258.	2.3	6
64	A pseudo-targeted metabolomics study based on serum bile acids profiling for the differential diagnosis of benign and malignant breast lesions. <i>Steroids</i> , 2021, 175, 108914.	1.8	6
65	A highly sensitive electrically driven electrochemiluminescent assay for quantification of bile acids in human serum. <i>Analyst</i> , The, 2013, 138, 5074.	3.5	5
66	Determination of total, free, and reduced homocysteine and related aminothiols in uremic patients undergoing hemodialysis by precolumn derivatization HPLC with fluorescence detection. <i>RSC Advances</i> , 2014, 4, 58412-58416.	3.6	5
67	High-performance liquid chromatography assay with programmed flow elution for cisatracurium in human plasma: Application to pharmacokinetics in infants and children. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 955-956, 58-63.	2.3	5
68	Detection of spot urinary free metanephrines and 3-methoxytyramine with internal reference correction for the diagnosis of pheochromocytomas and paragangliomas. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1156, 122306.	2.3	5
69	Putative carboxylesterase gene identification and their expression patterns in <i>Hyphantria cunea</i> (Drury). <i>PeerJ</i> , 2021, 9, e10919.	2.0	5
70	β-Catenin Deletion in Regional Neural Progenitors Leads to Congenital Hydrocephalus in Mice. <i>Neuroscience Bulletin</i> , 2022, 38, 81-94.	2.9	5
71	Comparing MicroRNA Profilings of Purified HER-2-Negative and HER-2-Positive Cells Validates miR-362-5p/Sema3A as Characteristic Molecular Change in Triple-Negative Breast Cancers. <i>Disease Markers</i> , 2019, 2019, 1-12.	1.3	4
72	Near-infrared triggered on-demand local anesthesia using a jammed microgels system. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 2252-2267.	3.5	4

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73	Visualization of translocator protein (18ÅkDa) (TSPO) in the retina of diabetic retinopathy rats using fluorine-18-DPA-714. <i>Annals of Nuclear Medicine</i> , 2020, 34, 675-681.	2.2	4
74	Mapping germ-layer specification preventing genes in hPSCs via genome-scale CRISPR screening. <i>IScience</i> , 2021, 24, 101926.	4.1	4
75	Molecular basis for the inhibitory effects of 5-hydroxycyclopicillone on the conformational transition of A β 40 monomer. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 39, 1-12.	3.5	2
76	FK506 combined with GM6001 prevents tracheal obliteration in a mouse model of heterotopic tracheal transplantation. <i>Transplant Immunology</i> , 2019, 57, 101244.	1.2	1
77	Dual-Template Magnetic Molecularly Imprinted Polymer for Simultaneous Determination of Spot Urine Metanephrines and 3-Methoxytyramine for the Diagnosis of Pheochromocytomas and Paragangliomas. <i>Molecules</i> , 2022, 27, 3520.	3.8	1
78	Selective enrichment of CD133+/SOX2+ glioblastoma stem cells via adherent culture. <i>Oncology Letters</i> , 2018, 16, 4567-4576.	1.8	0
79	Protocol for genome-scale CRISPR screening in engineered lineage reporter hPSCs to study cell fate determination. <i>STAR Protocols</i> , 2021, 2, 100548.	1.2	0
80	Interleukin-18: A Novel Participant in the Occurrence, Development, and Drug Therapy of Obliterative Bronchiolitis Postlung Transplantation. <i>Disease Markers</i> , 2021, 2021, 1-11.	1.3	0
81	Human Pluripotent Stem Cells and Neural Regeneration. <i>Learning Materials in Biosciences</i> , 2020, , 159-172.	0.4	0