

List of Publications by Year in descending order

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88
papers

4,689
citations

125106

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docs citations

94
times ranked

8872
citing authors

#	ARTICLE	IF	CITATIONS
1	Disrupted <i>Cacna1c</i> gene expression perturbs spontaneous Ca ²⁺ activity causing abnormal brain development and increased anxiety. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	15
2	GIT1 protects against breast cancer growth through negative regulation of Notch. <i>Nature Communications</i> , 2022, 13, 1537.	5.8	5
3	Glyphosate-based herbicide induces long-lasting impairment in neuronal and glial differentiation. <i>Environmental Toxicology</i> , 2022, 37, 2044-2057.	2.1	5
4	Small-world connectivity dictates collective endothelial cell signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118927119.	3.3	9
5	Imaging cleared tissues made easy. <i>Nature Methods</i> , 2022, 19, 527-529.	9.0	0
6	Recombinant Spider Silk Protein Matrices Facilitate Differentiation of Neural Stem Cells Into Mature and Functional Neurons. <i>Frontiers in Materials</i> , 2021, 7, .	1.2	3
7	Notch activation in the mouse mammary luminal lineage leads to ductal hyperplasia and altered partitioning of luminal cell subtypes. <i>Experimental Cell Research</i> , 2020, 395, 112156.	1.2	7
8	Human ex vivo spinal cord slice culture as a useful model of neural development, lesion, and allogeneic neural cell therapy. <i>Stem Cell Research and Therapy</i> , 2020, 11, 320.	2.4	4
9	Mending Fences: Na,K-ATPase signaling via Ca ²⁺ in the maintenance of epithelium integrity. <i>Cell Calcium</i> , 2020, 88, 102210.	1.1	10
10	Radiation Triggers a Dynamic Sequence of Transient Microglial Alterations in Juvenile Brain. <i>Cell Reports</i> , 2020, 31, 107699.	2.9	23
11	Three-dimensional single-cell imaging for the analysis of RNA and protein expression in intact tumour biopsies. <i>Nature Biomedical Engineering</i> , 2020, 4, 875-888.	11.6	21
12	Neurotransmitters and Endothelins Acting on Radial Glial G-Protein-Coupled Receptors Are, Through Proteolytic NRG/ErbB4 Activation, Able to Modify the Migratory Behavior of Neocortical Cells and Mediate Bipolar-to-Multipolar Transition. <i>Stem Cells and Development</i> , 2020, 29, 1160-1177.	1.1	1
13	Single cell analysis of autism patient with bi-allelic NRXN1-alpha deletion reveals skewed fate choice in neural progenitors and impaired neuronal functionality. <i>Experimental Cell Research</i> , 2019, 383, 111469.	1.2	39
14	The T-type Ca ²⁺ Channel Cav3.2 Regulates Differentiation of Neural Progenitor Cells during Cortical Development via Caspase-3. <i>Neuroscience</i> , 2019, 402, 78-89.	1.1	9
15	Volumetric imaging: a potential tool to stage upper tract urothelial carcinoma. <i>World Journal of Urology</i> , 2019, 37, 2297-2302.	1.2	2
16	Altered interplay between endoplasmic reticulum and mitochondria in Charcot-Marie-Tooth type 2A neuropathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2328-2337.	3.3	73
17	BCG-induced cytokine release in bladder cancer cells is regulated by Ca ²⁺ signaling. <i>Molecular Oncology</i> , 2019, 13, 202-211.	2.1	9
18	Spinal cord injury in zebrafish induced by near-infrared femtosecond laser pulses. <i>Journal of Neuroscience Methods</i> , 2019, 311, 259-266.	1.3	5

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19	Glycosylation controls sodium-calcium exchanger 3 sub-cellular localization during cell cycle. <i>European Journal of Cell Biology</i> , 2018, 97, 190-203.	1.6	5
20	Improved Pathological Examination of Tumors with 3D Light-Sheet Microscopy. <i>Trends in Cancer</i> , 2018, 4, 337-341.	3.8	14
21	Mapping of the three-dimensional lymphatic microvasculature in bladder tumours using light-sheet microscopy. <i>British Journal of Cancer</i> , 2018, 118, 995-999.	2.9	24
22	Regulation of radial glial process growth by glutamate via mGluR5/TRPC3 and neuregulin/ErbB4. <i>Glia</i> , 2018, 66, 94-107.	2.5	17
23	Predicting a tumour's drug uptake. <i>Nature Biomedical Engineering</i> , 2018, 2, 717-718.	11.6	1
24	Single-cell RNA-seq analysis reveals the platinum resistance gene COX7B and the surrogate marker CD63. <i>Cancer Medicine</i> , 2018, 7, 6193-6204.	1.3	29
25	A Zeb2-miR-200c loop controls midbrain dopaminergic neuron neurogenesis and migration. <i>Communications Biology</i> , 2018, 1, 75.	2.0	13
26	Membrane-Depolarizing Channel Blockers Induce Selective Glioma Cell Death by Impairing Nutrient Transport and Unfolded Protein/Amino Acid Responses. <i>Cancer Research</i> , 2017, 77, 1741-1752.	0.4	21
27	Mapping genes for calcium signaling and their associated human genetic disorders. <i>Bioinformatics</i> , 2017, 33, 2547-2554.	1.8	16
28	An ex vivo spinal cord injury model to study ependymal cells in adult mouse tissue. <i>Experimental Cell Research</i> , 2017, 357, 236-242.	1.2	12
29	Expression of Pluripotency Markers in Nonpluripotent Human Neural Stem and Progenitor Cells. <i>Stem Cells and Development</i> , 2017, 26, 876-887.	1.1	8
30	Whole-tissue biopsy phenotyping of three-dimensional tumours reveals patterns of cancer heterogeneity. <i>Nature Biomedical Engineering</i> , 2017, 1, 796-806.	11.6	131
31	Voltage-dependent calcium channel signaling mediates GABA _A receptor-induced migratory activation of dendritic cells infected by <i>Toxoplasma gondii</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006739.	2.1	65
32	Wnt/ β -Catenin Stimulation and Laminins Support Cardiovascular Cell Progenitor Expansion from Human Fetal Cardiac Mesenchymal Stromal Cells. <i>Stem Cell Reports</i> , 2016, 6, 607-617.	2.3	20
33	The 1p36 Tumor Suppressor KIF1B ² Is Required for Calcineurin Activation, Controlling Mitochondrial Fission and Apoptosis. <i>Developmental Cell</i> , 2016, 36, 164-178.	3.1	32
34	Acquired platinum resistance involves epithelial to mesenchymal transition through ubiquitin ligase FBXO32 dysregulation. <i>JCI Insight</i> , 2016, 1, e83654.	2.3	23
35	CO ₂ -evoked release of PGE ₂ modulates sighs and inspiration as demonstrated in brainstem organotypic culture. <i>ELife</i> , 2016, 5, .	2.8	39
36	The COUP-TFII/Neuropilin-2 is a molecular switch steering diencephalon-derived GABAergic neurons in the developing mouse brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4985-94.	3.3	37

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37	Sublethal Caspase Activation Promotes Generation of Cardiomyocytes from Embryonic Stem Cells. PLoS ONE, 2015, 10, e0120176.	1.1	19
38	Calcium signaling in neocortical development. Developmental Neurobiology, 2015, 75, 360-368.	1.5	51
39	Infection by <i>Toxoplasma gondii</i> Induces Amoeboid-Like Migration of Dendritic Cells in a Three-Dimensional Collagen Matrix. PLoS ONE, 2015, 10, e0139104.	1.1	69
40	Interleukin-6 Secretion by Astrocytes Is Dynamically Regulated by PI3K-mTOR-Calcium Signaling. PLoS ONE, 2014, 9, e92649.	1.1	31
41	Network analysis of time-lapse microscopy recordings. Frontiers in Neural Circuits, 2014, 8, 111.	1.4	27
42	MYC proteins promote neuronal differentiation by controlling the mode of progenitor cell division. EMBO Reports, 2014, 15, 383-391.	2.0	53
43	Frequency decoding of calcium oscillations. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 964-969.	1.1	236
44	Cathelicidin LL-37 induces time-resolved release of LTB ₄ and TXA ₂ by human macrophages and triggers eicosanoid generation <i>in vivo</i> . FASEB Journal, 2014, 28, 3456-3467.	0.2	29
45	Tracheal tissue engineering in rats. Nature Protocols, 2014, 9, 2164-2179.	5.5	38
46	An integrated mechanism of cardiomyocyte nuclear Ca ²⁺ signaling. Journal of Molecular and Cellular Cardiology, 2014, 75, 40-48.	0.9	15
47	AmotL2 links VE-cadherin to contractile actin fibres necessary for aortic lumen expansion. Nature Communications, 2014, 5, 3743.	5.8	56
48	AmotL2 disrupts apical-basal cell polarity and promotes tumour invasion. Nature Communications, 2014, 5, 4557.	5.8	48
49	Intracellular calcium release modulates polycystin-2 trafficking. BMC Nephrology, 2013, 14, 34.	0.8	12
50	Local Control of Nuclear Calcium Signaling in Cardiac Myocytes by Perinuclear Microdomains of Sarcolemmal Insulin-Like Growth Factor 1 Receptors. Circulation Research, 2013, 112, 236-245.	2.0	73
51	Perfluorooctane sulfonate induces neuronal and oligodendrocytic differentiation in neural stem cells and alters the expression of PPAR γ <i>in vitro</i> and <i>in vivo</i> . Toxicology and Applied Pharmacology, 2013, 269, 51-60.	1.3	46
52	Cxcl12/Cxcr4 signaling controls the migration and process orientation of A9-A10 dopaminergic neurons. Development (Cambridge), 2013, 140, 4554-4564.	1.2	71
53	Neural progenitors organize in small-world networks to promote cell proliferation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1524-32.	3.3	85
54	Glutaredoxin regulates vascular development by reversible glutathionylation of sirtuin 1. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20057-20062.	3.3	77

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55	Small-world networks of spontaneous Ca ²⁺ activity. <i>Communicative and Integrative Biology</i> , 2013, 6, e24788.	0.6	16
56	Origin of excitation underlying locomotion in the spinal circuit of zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5511-5516.	3.3	82
57	The Sphingosine-1-Phosphate Receptor S1PR1 Restricts Sprouting Angiogenesis by Regulating the Interplay between VE-Cadherin and VEGFR2. <i>Developmental Cell</i> , 2012, 23, 587-599.	3.1	287
58	The Sphingosine-1-Phosphate Receptor S1PR1 Restricts Sprouting Angiogenesis by Regulating the Interplay between VE-Cadherin and VEGFR2. <i>Developmental Cell</i> , 2012, 23, 1264.	3.1	3
59	Small molecule screening platform for assessment of cardiovascular toxicity on adult zebrafish heart. <i>BMC Physiology</i> , 2012, 12, 3.	3.6	27
60	RET PLC β Phosphotyrosine Binding Domain Regulates Ca ²⁺ Signaling and Neocortical Neuronal Migration. <i>PLoS ONE</i> , 2012, 7, e31258.	1.1	22
61	Noggin and Wnt3a enable BMP4-dependent differentiation of telencephalic stem cells into GluR-agonist responsive neurons. <i>Molecular and Cellular Neurosciences</i> , 2011, 47, 10-18.	1.0	14
62	Calcium signaling in placenta. <i>Cell Calcium</i> , 2011, 49, 350-356.	1.1	35
63	Inositol 1,4,5-Trisphosphate Receptor Subtype-Specific Regulation of Calcium Oscillations. <i>Neurochemical Research</i> , 2011, 36, 1175-1185.	1.6	57
64	Non-Dioxin-like Polychlorinated Biphenyls Interfere with Neuronal Differentiation of Embryonic Neural Stem Cells. <i>Toxicological Sciences</i> , 2011, 124, 192-201.	1.4	22
65	Human MIEF1 recruits Drp1 to mitochondrial outer membranes and promotes mitochondrial fusion rather than fission. <i>EMBO Journal</i> , 2011, 30, 2762-2778.	3.5	318
66	PfMDR1: Mechanisms of Transport Modulation by Functional Polymorphisms. <i>PLoS ONE</i> , 2011, 6, e23875.	1.1	51
67	Critical role for hyperpolarization-activated cyclic nucleotide-gated channel 2 in the AIF-mediated apoptosis. <i>EMBO Journal</i> , 2010, 29, 3869-3878.	3.5	35
68	En masse in vitro functional profiling of the axonal mechanosensitivity of sensory neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16336-16341.	3.3	14
69	Biochemistry of calcium oscillations. <i>Biochemical and Biophysical Research Communications</i> , 2010, 396, 28-32.	1.0	115
70	Ca ²⁺ and cAMP Signaling in Human Embryonic Stem Cell-Derived Dopamine Neurons. <i>Stem Cells and Development</i> , 2010, 19, 1355-1364.	1.1	41
71	Na,K-ATPase signal transduction triggers CREB activation and dendritic growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2212-2217.	3.3	60
72	Testosterone induces cardiomyocyte hypertrophy through mammalian target of rapamycin complex 1 pathway. <i>Journal of Endocrinology</i> , 2009, 202, 299-307.	1.2	91

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73	Angiotensin-Like Protein 1 Controls Endothelial Polarity and Junction Stability During Sprouting Angiogenesis. <i>Circulation Research</i> , 2009, 105, 260-270.	2.0	101
74	Î±-Chemokines Regulate Proliferation, Neurogenesis, and Dopaminergic Differentiation of Ventral Midbrain Precursors and Neurospheres. <i>Stem Cells</i> , 2008, 26, 1891-1900.	1.4	22
75	Modeling the impact of store-operated Ca ²⁺ entry on intracellular Ca ²⁺ oscillations. <i>Mathematical Biosciences</i> , 2006, 204, 232-249.	0.9	24
76	Ca ²⁺ oscillations induced by testosterone enhance neurite outgrowth. <i>Journal of Cell Science</i> , 2006, 119, 733-743.	1.2	72
77	Distinct Role of the N-terminal Tail of the Na,K-ATPase Catalytic Subunit as a Signal Transducer. <i>Journal of Biological Chemistry</i> , 2006, 281, 21954-21962.	1.6	109
78	Gain-of-function/Noonan syndrome SHP-2/Ptpn11 mutants enhance calcium oscillations and impair NFAT signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2160-2165.	3.3	79
79	Effects of the Escherichia coli toxin cytolysin A on mucosal immunostimulation via epithelial Ca ²⁺ signalling and Toll-like receptor 4. <i>Cellular Microbiology</i> , 2005, 7, 779-788.	1.1	55
80	Signaling Microdomains Regulate Inositol 1,4,5-Trisphosphate-Mediated Intracellular Calcium Transients in Cultured Neurons. <i>Journal of Neuroscience</i> , 2005, 25, 2853-2864.	1.7	44
81	Capacitative calcium entry in testosterone-induced intracellular calcium oscillations in myotubes. <i>Journal of Endocrinology</i> , 2005, 184, 371-379.	1.2	21
82	InsP3-mediated intracellular calcium signalling is altered by expression of synaptojanin-1. <i>Biochemical Journal</i> , 2004, 382, 687-694.	1.7	9
83	Spectral Analysis of Calcium Oscillations. <i>Science Signaling</i> , 2004, 2004, pl15-pl15.	1.6	54
84	Visualization of Na,K-ATPase Interacting Proteins Using FRET Technique. <i>Annals of the New York Academy of Sciences</i> , 2003, 986, 514-518.	1.8	7
85	Cell Signaling Microdomain with Na,K-ATPase and Inositol 1,4,5-Trisphosphate Receptor Generates Calcium Oscillations. <i>Journal of Biological Chemistry</i> , 2003, 278, 50355-50361.	1.6	150
86	Ouabain, a steroid hormone that signals with slow calcium oscillations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 13420-13424.	3.3	260
87	Anatomical and physiological evidence for D1 and D2 dopamine receptor colocalization in neostriatal neurons. <i>Nature Neuroscience</i> , 2000, 3, 226-230.	7.1	366
88	Î±-Haemolysin of uropathogenic E. coli induces Ca ²⁺ oscillations in renal epithelial cells. <i>Nature</i> , 2000, 405, 694-697.	13.7	238