David C Spray

List of Publications by Year
in descending order

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311 papers	24,243 citations	4146 87 h-index	9345 143 g-index
354 all docs	354 docs citations	354 times ranked	15600 citing authors

#	Article	IF	Citations
1	Gap junctions: New tools, new answers, new questions. Neuron, 1991, 6, 305-320.	8.1	931
2	Hepatocyte gap junctions are permeable to the second messenger, inositol 1,4,5-trisphosphate, and to calcium ions.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 2708-2712.	7.1	564
3	Differential expression of three gap junction proteins in developing and mature brain tissues.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 10148-10152.	7.1	493
4	Gap junctions in the brain: where, what type, how many and why?. Trends in Neurosciences, 1993, 16, 186-192.	8.6	481
5	Glial cells in (patho)physiology. Journal of Neurochemistry, 2012, 121, 4-27.	3.9	460
6	Pannexin1 is part of the pore forming unit of the P2X7receptor death complex. FEBS Letters, 2007, 581, 483-488.	2.8	402
7	Equilibrium properties of a voltage-dependent junctional conductance.. Journal of General Physiology, 1981, 77, 77-93.	1.9	386
8	cAMP increases junctional conductance and stimulates phosphorylation of the 27-kDa principal gap junction polypeptide.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 2473-2477.	7.1	351
9	Pannexin 1: The Molecular Substrate of Astrocyte â€œHemichannelsâ€• Journal of Neuroscience, 2009, 29, 7092-7097.	3.6	335
10	Wnt-1 regulation of connexin43 in cardiac myocytes. Journal of Clinical Investigation, 2000, 105, 161-171.	8.2	317
11	Potent block of Cx36 and Cx50 gap junction channels by mefloquine. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12364-12369.	7.1	315
12	Pannexin channels are not gap junction hemichannels. Channels, 2011, 5, 193-197.	2.8	305
13	P2X₇receptor-Pannexin1 complex: pharmacology and signaling. American Journal of Physiology - Cell Physiology, 2008, 295, C752-C760.	4.6	303
14	Functional connexin â€œhemichannelsâ€• A critical appraisal. Glia, 2006, 54, 758-773.	4.9	297
15	Cytokine regulation of neuronal differentiation of hippocampal progenitor cells. Nature, 1993, 362, 62-65.	27.8	286
16	The role of the glycocalyx in reorganization of the actin cytoskeleton under fluid shear stress: A "bumper-car" model. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16483-16488.	7.1	277
17	Functional Properties of Channels Formed by the Neuronal Gap Junction Protein Connexin36. Journal of Neuroscience, 1999, 19, 9848-9855.	3.6	258
18	Human connexin43 gap junction channels. Regulation of unitary conductances by phosphorylation.. Circulation Research, 1994, 74, 1050-1057.	4.5	249

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19	Kinetic properties of a voltage-dependent junctional conductance.. Journal of General Physiology, 1981, 77, 95-117.	1.9	242
20	Involvement of gap junctions in tumorigenesis: transfection of tumor cells with connexin 32 cDNA retards growth in vivo.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 10701-10705.	7.1	237
21	Connexin Family Members Target to Lipid Raft Domains and Interact with Caveolin-1. Biochemistry, 2002, 41, 5754-5764.	2.5	234
22	Gap Junctions in Vascular Tissues. Circulation Research, 1996, 79, 631-646.	4.5	228
23	Proteoglycans and glycosaminoglycans induce gap junction synthesis and function in primary liver cultures.. Journal of Cell Biology, 1987, 105, 541-551.	5.2	221
24	Coupled Activation of Primary Sensory Neurons Contributes to Chronic Pain. Neuron, 2016, 91, 1085-1096.	8.1	216
25	Connexin and pannexin mediated cellâ€“cell communication. Neuron Glia Biology, 2007, 3, 199-208.	1.6	212
26	Molecular characterization and functional expression of the human cardiac gap junction channel.. Journal of Cell Biology, 1990, 111, 589-598.	5.2	203
27	Imaging the Endothelial Glycocalyx In Vitro by Rapid Freezing/Freeze Substitution Transmission Electron Microscopy. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1908-1915.	2.4	194
28	Voltage dependence of junctional conductance in early amphibian embryos. Science, 1979, 204, 432-434.	12.6	193
29	Connexin43 null mice reveal that astrocytes express multiple connexins. Brain Research Reviews, 2000, 32, 45-56.	9.0	191
30	Quinine blocks specific gap junction channel subtypes. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 10942-10947.	7.1	191
31	The role of aquaporin-4 in the bloodâ€“brain barrier development and integrity: Studies in animal and cell culture models. Neuroscience, 2004, 129, 935-944.	2.3	191
32	Volatile anesthetics block intercellular communication between neonatal rat myocardial cells.. Circulation Research, 1989, 65, 829-837.	4.5	189
33	Emerging importance of satellite glia in nervous system function and dysfunction. Nature Reviews Neuroscience, 2020, 21, 485-498.	10.2	189
34	Intercellular Communication in Spinal Cord Astrocytes: Fine Tuning between Gap Junctions and P2 Nucleotide Receptors in Calcium Wave Propagation. Journal of Neuroscience, 2000, 20, 1435-1445.	3.6	186
35	Single-channel events and gating behavior of the cardiac gap junction channel.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 3431-3434.	7.1	185
36	IL-1Î² differentially regulates calcium wave propagation between primary human fetal astrocytes via pathways involving P2 receptors and gap junction channels. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11613-11618.	7.1	182

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37	How to Close a Gap Junction Channel: Efficacies and Potencies of Uncoupling Agents. , 2001, 154, 447-476.		175
38	Structural Changes in the Carboxyl Terminus of the Gap Junction Protein Connexin43 Indicates Signaling between Binding Domains for c-Src and Zonula Occludens-1. Journal of Biological Chemistry, 2004, 279, 54695-54701.	3.4	174
39	Phosphorylation of connexin 32, a hepatocyte gap-junction protein, by cAMP-dependent protein kinase, protein kinase C and Ca2+ /calmodulin-dependent protein kinase II. FEBS Journal, 1990, 192, 263-273.	0.2	171
40	Connexins, pannexins, innexins: novel roles of â€œhemi-channelsâ€• Pflugers Archiv European Journal of Physiology, 2009, 457, 1207-1226.	2.8	166
41	Gap junctional conductance: comparison of sensitivities to H and Ca ions.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 441-445.	7.1	164
42	Shear-induced endothelial NOS activation and remodeling via heparan sulfate, glypican-1, and syndecan-1. Integrative Biology (United Kingdom), 2014, 6, 338-347.	1.3	160
43	Gap junction channels: distinct voltage-sensitive and -insensitive conductance states. Biophysical Journal, 1994, 67, 113-119.	0.5	159
44	Gap-junctional coupling between neurons and astrocytes in primary central nervous system cultures. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 7541-7546.	7.1	158
45	Biophysical properties of gap junctions between freshly dispersed pairs of mouse pancreatic beta cells. Biophysical Journal, 1991, 59, 76-92.	0.5	157
46	pH-Dependent Intramolecular Binding and Structure Involving Cx43 Cytoplasmic Domains. Journal of Biological Chemistry, 2002, 277, 36706-36714.	3.4	157
47	Phosphorylation shifts unitary conductance and modifies voltage dependent kinetics of human connexin43 gap junction channels. Biophysical Journal, 1992, 62, 51-53.	0.5	156
48	Functional analysis of human cardiac gap junction channel mutants.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 3525-3529.	7.1	150
49	Gap junctions in the nervous system. Brain Research Reviews, 2000, 32, 11-15.	9.0	150
50	Mechanisms of glutamate release from astrocytes: gap junction â€œhemichannelsâ€• purinergic receptors and exocytotic release. Neurochemistry International, 2004, 45, 259-264.	3.8	148
51	The role of connexins in controlling cell growth and gene expression. Progress in Biophysics and Molecular Biology, 2007, 94, 245-264.	2.9	147
52	ATP signaling is deficient in cultured pannexin1â€•null mouse astrocytes. Glia, 2012, 60, 1106-1116.	4.9	147
53	Phosphorylation of Connexin43 and the Regulation of Neonatal Rat Cardiac Myocyte Gap Junctions. Journal of Molecular and Cellular Cardiology, 1997, 29, 2131-2145.	1.9	144
54	New possible roles for aquaporinâ€4 in astrocytes: cell cytoskeleton and functional relationship with connexin43. FASEB Journal, 2005, 19, 1674-1676.	0.5	143

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55	Cloning and in situ localization of a brain-derived porin that constitutes a large-conductance anion channel in astrocytic plasma membranes.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 499-503.	7.1	139
56	Perspectives on Trypanosoma cruziâ€“Induced Heart Disease (Chagas Disease). Progress in Cardiovascular Diseases, 2009, 51, 524-539.	3.1	138
57	Inhibition of Endothelial Cell Migration, Intercellular Communication, and Vascular Tube Formation by Thromboxane A2. Journal of Biological Chemistry, 1999, 274, 35562-35570.	3.4	135
58	The gap junction family: structure, function and chemistry. Anatomy and Embryology, 1990, 182, 517-28.	1.5	132
59	Gating of gap junction channels. Biophysical Journal, 1984, 45, 219-230.	0.5	131
60	Expression of gap junction channels in communication-incompetent cells after stable transfection with cDNA encoding connexin 32.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 1328-1331.	7.1	130
61	Reciprocal Regulation of the Junctional Proteins Claudin-1 and Connexin43 by Interleukin-1Î² in Primary Human Fetal Astrocytes. Journal of Neuroscience, 2000, 20, RC114-RC114.	3.6	130
62	Gap junctions: the â€œkiss of deathâ€•and the â€œkiss of lifeâ€• Brain Research Reviews, 2000, 32, 308-315.	9.0	129
63	Connexin43, the major gap junction protein of astrocytes, is down-regulated in inflamed white matter in an animal model of multiple sclerosis. Journal of Neuroscience Research, 2005, 80, 798-808.	2.9	127
64	Bidirectional calcium signaling between satellite glial cells and neurons in cultured mouse trigeminal ganglia. Neuron Glia Biology, 2010, 6, 43-51.	1.6	126
65	Blockade of Gap Junctions In Vivo Provides Neuroprotection After Perinatal Global Ischemia. Stroke, 2005, 36, 2232-2237.	2.0	121
66	Gap Junctions Mediate Bystander Cell Death in Developing Retina. Journal of Neuroscience, 2003, 23, 6413-6422.	3.6	116
67	Gap junction remodeling and cardiac arrhythmogenesis in a murine model of oculodentodigital dysplasia. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20512-20516.	7.1	116
68	Calcium waves between astrocytes from Cx43 knockout mice. Glia, 1998, 24, 65-73.	4.9	115
69	Regulation of Connexin43 Protein Complexes by Intracellular Acidification. Circulation Research, 2004, 94, 215-222.	4.5	115
70	Connexins modulate autophagosome biogenesis. Nature Cell Biology, 2014, 16, 401-414.	10.3	113
71	Block of Specific Gap Junction Channel Subtypes by 2-Aminoethoxydiphenyl Borate (2-APB). Journal of Pharmacology and Experimental Therapeutics, 2006, 319, 1452-1458.	2.5	112
72	Mechanosensory responses of osteocytes to physiological forces occur along processes and not cell body and require Î± _V Î² ₃ integrin. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 21012-21017.	7.1	112

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73	Formation of the gap junction nexus: binding partners for connexins. Journal of Physiology (Paris), 2002, 96, 243-249.	2.1	111
74	The neuronal connexin36 interacts with and is phosphorylated by CaMKII in a way similar to CaMKII interaction with glutamate receptors. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20964-20969.	7.1	110
75	Autophagy modulates dynamics of connexins at the plasma membrane in a ubiquitin-dependent manner. Molecular Biology of the Cell, 2012, 23, 2156-2169.	2.1	110
76	Junctional communication is induced in migrating capillary endothelial cells.. Journal of Cell Biology, 1989, 109, 3027-3038.	5.2	109
77	Cytokine-induced programmed death of cultured sympathetic neurons. Neuron, 1993, 11, 1123-1132.	8.1	107
78	Permeability of gap junctions between embryonic cells of Fundulus: A reevaluation. Developmental Biology, 1978, 65, 114-125.	2.0	106
79	The bystander effect exerted by tumor cells expressing the herpes simplex virus thymidine kinase (HSVtk) gene is dependent on connexin expression and cell communication via gap junctions. Gene Therapy, 1997, 4, 577-585.	4.5	101
80	Changes in the Properties of Gap Junctions during Neuronal Differentiation of Hippocampal Progenitor Cells. Journal of Neuroscience, 1998, 18, 1753-1762.	3.6	100
81	The Drosophila clock gene per affects intercellular junctional communication. Nature, 1987, 328, 686-691.	27.8	99
82	Glycosaminoglycans and proteoglycans induce gap junction expression and restore transcription of tissue-specific mRNAs in primary liver cultures. Hepatology, 1987, 7, 1S-9S.	7.3	97
83	Voltage dependence of macroscopic and unitary currents of gap junction channels formed by mouse connexin50 expressed in rat neuroblastoma cells. Journal of Physiology, 1999, 517, 673-689.	2.9	97
84	Calmodulin Kinase Pathway Mediates the K⁺-Induced Increase in Gap Junctional Communication between Mouse Spinal Cord Astrocytes. Journal of Neuroscience, 2001, 21, 6635-6643.	3.6	97
85	Array analysis of gene expression in connexin-43 null astrocytes. Physiological Genomics, 2003, 15, 177-190.	2.3	97
86	Effects of cGMP-dependent phosphorylation on rat and human connexin43 gap junction channels. Pflugers Archiv European Journal of Physiology, 1995, 430, 770-778.	2.8	95
87	Closure of Gap Junction Channels by Arylaminobenzoates. Molecular Pharmacology, 2003, 63, 1389-1397.	2.3	92
88	Altered Connexin Expression after Peripheral Nerve Injury. Molecular and Cellular Neurosciences, 1996, 7, 501-518.	2.2	91
89	The speed of swelling kinetics modulates cell volume regulation and calcium signaling in astrocytes: A different point of view on the role of aquaporins. Glia, 2016, 64, 139-154.	4.9	91
90	Chagas Heart Disease. Cardiology in Review, 2012, 20, 53-65.	1.4	90

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91	Stress gates an astrocytic energy reservoir to impair synaptic plasticity. Nature Communications, 2020, 11, 2014.	12.8	89
92	Fluid shear stress remodels expression and function of junctional proteins in cultured bone cells. American Journal of Physiology - Cell Physiology, 2003, 284, C389-C403.	4.6	88
93	Induction of Tight Junctions in Human Connexin 32 (hCx32)-Transfected Mouse Hepatocytes: Connexin 32 Interacts with Occludin. Biochemical and Biophysical Research Communications, 1999, 266, 222-229.	2.1	87
94	In vivo modulation of connexin 43 gene expression and junctional coupling of pancreatic B-cells. Experimental Cell Research, 1991, 192, 469-480.	2.6	84
95	KATP Channels Regulate Mitogenically Induced Proliferation in Primary Rat Hepatocytes and Human Liver Cell Lines. Journal of Biological Chemistry, 2000, 275, 26050-26057.	3.4	82
96	Properties of Gap Junction Channels Formed by Cx46 Alone and in Combination with Cx50. Biophysical Journal, 2000, 79, 1954-1966.	0.5	82
97	Heterogeneity in gap junction expression in astrocytes cultured from different brain regions. Glia, 1992, 6, 213-221.	4.9	80
98	Connexin 43 Mediates White Adipose Tissue Beiging by Facilitating the Propagation of Sympathetic Neuronal Signals. Cell Metabolism, 2016, 24, 420-433.	16.2	80
99	Optimized labeling of bone marrow mesenchymal cells with superparamagnetic iron oxide nanoparticles and in vivo visualization by magnetic resonance imaging. Journal of Nanobiotechnology, 2011, 9, 4.	9.1	77
100	Prospects for Rational Development of Pharmacological Gap Junction Channel Blockers. Current Drug Targets, 2002, 3, 455-464.	2.1	76
101	Osteocyte calcium signals encode strain magnitude and loading frequency in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11775-11780.	7.1	76
102	Cx32 Formation and/or Cx32-Mediated Intercellular Communication Induces Expression and Function of Tight Junctions in Hepatocytic Cell Line. Experimental Cell Research, 2002, 276, 40-51.	2.6	75
103	Gene expression alterations in connexin null mice extend beyond the gap junction. Neurochemistry International, 2004, 45, 243-250.	3.8	74
104	Acquired infection with Toxoplasma gondii in adult mice results in sensorimotor deficits but normal cognitive behavior despite widespread brain pathology. Microbes and Infection, 2010, 12, 528-537.	1.9	74
105	Extracellular K+ and Astrocyte Signaling via Connexin and Pannexin Channels. Neurochemical Research, 2012, 37, 2310-2316.	3.3	74
106	From neuro-glue (â€˜nervenkittâ€™) to glia: A prologue. , 1998, 24, 1-7.		73
107	Microarray analysis of changes in gene expression in a murine model of chronic chagasic cardiomyopathy. Parasitology Research, 2003, 91, 187-196.	1.6	72
108	Sensitivity of the brain transcriptome to connexin ablation. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1711, 183-196.	2.6	70

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109	Green tea polyphenol treatment is chondroprotective, anti-inflammatory and palliative in a mouse posttraumatic osteoarthritis model. Arthritis Research and Therapy, 2014, 16, 508.	3.5	69
110	Reversion of gene expression alterations in hearts of mice with chronic chagasic cardiomyopathy after transplantation of bone marrow cells. Cell Cycle, 2011, 10, 1448-1455.	2.6	68
111	Regulation of Connexin43-Protein Binding in Astrocytes in Response to Chemical Ischemia/Hypoxia. Journal of Biological Chemistry, 2005, 280, 7941-7948.	3.4	66
112	Developments in the management of Chagas cardiomyopathy. Expert Review of Cardiovascular Therapy, 2015, 13, 1393-1409.	1.5	66
113	Acute downregulation of Cx43 alters P2Y receptor expression levels in mouse spinal cord astrocytes. Glia, 2003, 42, 160-171.	4.9	65
114	Modifications in the Biophysical Properties of Connexin43 Channels by a Peptide of the Cytoplasmic Loop Region. Circulation Research, 2004, 95, e22-8.	4.5	65
115	A Stochastic Two-Dimensional Model of Intercellular Ca2+ Wave Spread in Glia. Biophysical Journal, 2006, 90, 24-41.	0.5	65
116	Pannexin-1 and P2X7-Receptor Are Required for Apoptotic Osteocytes in Fatigued Bone to Trigger RANKL Production in Neighboring Bystander Osteocytes. Journal of Bone and Mineral Research, 2016, 31, 890-899.	2.8	65
117	TNFÎ± Inhibits Schwann Cell Proliferation, Connexin46 Expression, and Gap Junctional Communication. Molecular and Cellular Neurosciences, 1996, 7, 479-500.	2.2	64
118	Gene Expression Changes Associated with Myocarditis and Fibrosis in Hearts of Mice with Chronic Chagasic Cardiomyopathy. Journal of Infectious Diseases, 2010, 202, 416-426.	4.0	64
119	Promises and pitfalls of a Pannexin1 transgenic mouse line. Frontiers in Pharmacology, 2013, 4, 61.	3.5	64
120	Strain-induced mechanotransduction through primary cilia, extracellular ATP, purinergic calcium signaling, and ERK1/2 transactivates CITED2 and downregulates MMP-1 and MMP-13 gene expression in chondrocytes. Osteoarthritis and Cartilage, 2016, 24, 892-901.	1.3	63
121	Functional gap junctions in thymic epithelial cells are formed by connexin 43. European Journal of Immunology, 1995, 25, 431-437.	2.9	62
122	Connexins Induce and Maintain Tight Junctions in Epithelial Cells. Journal of Membrane Biology, 2007, 217, 13-19.	2.1	62
123	Automated Cell-Based Assay for Screening of Aquaporin Inhibitors. Analytical Chemistry, 2009, 81, 8219-8229.	6.5	62
124	Mefloquine Blockade of Pannexin1 Currents: Resolution of a Conflict. Cell Communication and Adhesion, 2010, 16, 131-137.	1.0	62
125	Gap junctions, pannexins and pain. Neuroscience Letters, 2019, 695, 46-52.	2.1	62
126	The Gap Junction Protein Connexin32 Interacts with the Src Homology 3/Hook Domain of Discs Large Homolog 1. Journal of Biological Chemistry, 2007, 282, 9789-9796.	3.4	61

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127	Intercellular communication through gap junctions: A potential role in pharmacomechanical coupling and syncytial tissue contraction in vascular smooth muscle isolated from the human corpus cavernosum. Life Sciences, 1991, 49, PL195-PL200.	4.3	59
128	A Novel Casein Kinase 2 Î±-Subunit Regulates Membrane Protein Traffic in the Human Hepatoma Cell Line HuH-7. Journal of Biological Chemistry, 2001, 276, 2075-2082.	3.4	58
129	Connexin-dependent transcellular transcriptomic networks in mouse brain. Progress in Biophysics and Molecular Biology, 2007, 94, 169-185.	2.9	58
130	Bone Marrow Cell Therapy Ameliorates and Reverses Chagasic Cardiomyopathy in a Mouse Model. Journal of Infectious Diseases, 2008, 197, 544-547.	4.0	58
131	Gap junctions and Bystander effects: Good Samaritans and executioners. Environmental Sciences Europe, 2013, 2, 1-15.	5.5	58
132	Cognitive Dysfunction in Mice Infected withPlasmodium bergheiStrain ANKA. Journal of Infectious Diseases, 2008, 197, 1621-1627.	4.0	57
133	Conduction Defects and Arrhythmias in Chagas' Disease:.. Journal of Cardiovascular Electrophysiology, 1994, 5, 686-698.	1.7	56
134	Two non-vesicular ATP release pathways in the mouse erythrocyte membrane. FEBS Letters, 2011, 585, 3430-3435.	2.8	55
135	pH-Dependent Dimerization of the Carboxyl Terminal Domain of Cx43. Biophysical Journal, 2004, 87, 574-581.	0.5	54
136	Potential role for a specialized Î²₃ integrinâ€based structure on osteocyte processes in bone mechanosensation. Journal of Orthopaedic Research, 2018, 36, 642-652.	2.3	53
137	Gap junction mediated signaling between satellite glia and neurons in trigeminal ganglia. Glia, 2019, 67, 791-801.	4.9	52
138	P2X7R-Panx1 Complex Impairs Bone Mechanosignaling under High Glucose Levels Associated with Type-1 Diabetes. PLoS ONE, 2016, 11, e0155107.	2.5	51
139	Connexin43 and the brain transcriptome of newborn mice. Genomics, 2007, 89, 113-123.	2.9	49
140	High Glucose Attenuates Shear-Induced Changes in Endothelial Hydraulic Conductivity by Degrading the Glycocalyx. PLoS ONE, 2013, 8, e78954.	2.5	49
141	Molecular Cloning and Functional Expression of zfCx52.6. Journal of Biological Chemistry, 2004, 279, 2913-2921.	3.4	48
142	Effect of microgravity on gene expression in mouse brain. Experimental Brain Research, 2008, 191, 289-300.	1.5	48
143	Similar Transcriptomic Alterations in Cx43 Knockdown and Knockout Astrocytes. Cell Communication and Adhesion, 2008, 15, 195-206.	1.0	48
144	C-erbB2/neuTransfection Induces Gap Junctional Communication Incompetence in Glial Cells. Journal of Neuroscience, 1996, 16, 4311-4321.	3.6	47

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145	Disruption of Calcium Homeostasis in Cardiomyocytes Underlies Cardiac Structural and Functional Changes in Severe Sepsis. PLoS ONE, 2013, 8, e68809.	2.5	47
146	Molecular Basis for Pacemaker Cells in Epithelia. Journal of Biological Chemistry, 2002, 277, 16313-16323.	3.4	46
147	Genes controlling multiple functional pathways are transcriptionally regulated in connexin43 null mouse heart. Physiological Genomics, 2005, 20, 211-223.	2.3	46
148	Gap Junction-Mediated Bidirectional Signaling between Human Fetal Hippocampal Neurons and Astrocytes. Developmental Neuroscience, 2001, 23, 420-431.	2.0	44
149	Calmodulin dependent protein kinase increases conductance at gap junctions formed by the neuronal gap junction protein connexin36. Brain Research, 2012, 1487, 69-77.	2.2	44
150	Connexin43 and Pannexin1 Channels in Osteoblasts: Who Is the â€œHemichannelâ€?. Journal of Membrane Biology, 2012, 245, 401-409.	2.1	44
151	Glial pannexin1 contributes to tactile hypersensitivity in a mouse model of orofacial pain. Scientific Reports, 2016, 6, 38266.	3.3	44
152	Fluid Shear Stress Upregulates Vascular Endothelial Growth Factor Gene Expression in Osteoblasts. Annals of the New York Academy of Sciences, 2007, 1117, 73-81.	3.8	43
153	Reciprocal influence of connexins and apical junction proteins on their expressions and functions. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 768-778.	2.6	43
154	The Carboxyl-terminal Domain of Connexin43 Is a Negative Modulator of Neuronal Differentiation. Journal of Biological Chemistry, 2010, 285, 11836-11845.	3.4	43
155	Mesenchymal Bone Marrow Cell Therapy in a Mouse Model of Chagas Disease. Where Do the Cells Go?. PLoS Neglected Tropical Diseases, 2012, 6, e1971.	3.0	43
156	Transcriptomic alterations in Trypanosoma cruzi-infected cardiac myocytes. Microbes and Infection, 2009, 11, 1140-1149.	1.9	42
157	Persistent cognitive and motor deficits after successful antimalarial treatment in murine cerebral malaria. Microbes and Infection, 2010, 12, 1198-1207.	1.9	42
158	Gap Junction Proteins. Circulation Research, 1998, 83, 679-681.	4.5	41
159	Cardiac Connexins: Genes to Nexus. , 2006, 42, 1-17.		41
160	Labeling Stem Cells with Superparamagnetic Iron Oxide Nanoparticles: Analysis of the Labeling Efficacy by Microscopy and Magnetic Resonance Imaging. Methods in Molecular Biology, 2012, 906, 239-252.	0.9	41
161	Organizational Principles of the Connexin-Related Brain Transcriptome. Journal of Membrane Biology, 2007, 218, 39-47.	2.1	40
162	Effects of ageing and streptozotocinâ€induced diabetes on connexin43 and P2 purinoceptor expression in the rat corpora cavernosa and urinary bladder. BJU International, 2009, 103, 1686-1693.	2.5	40

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163	Gap Junctions in Glia. Advances in Experimental Medicine and Biology, 1999, , 339-359.	1.6	39
164	Pannexin 1 Channels Play Essential Roles in Urothelial Mechanotransduction and Intercellular Signaling. PLoS ONE, 2014, 9, e106269.	2.5	39
165	Gap junction disappearance in astrocytes and leptomeningeal cells as a consequence of protozoan infection. Brain Research, 1998, 790, 304-314.	2.2	38
166	Chemical Induction of Cardiac Differentiation in P19 Embryonal Carcinoma Stem Cells. Stem Cells and Development, 2010, 19, 403-412.	2.1	38
167	Flow cytometry analysis of gap junction-mediated cellâ€“cell communication: Advantages and pitfalls. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 487-493.	1.5	37
168	Point Mutation in the Mouse P2X₇ Receptor Affects Intercellular Calcium Waves in Astrocytes. ASN Neuro, 2009, 1, AN20090001.	2.7	37
169	Matrix-dependent adhesion mediates network responses to physiological stimulation of the osteocyte cell process. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12096-12101.	7.1	37
170	mRNAs encoding muscarinic and substance P receptors in cultured sympathetic neurons are differentially regulated by LIF or CNTF. Developmental Biology, 1994, 164, 528-539.	2.0	36
171	Properties of connexin40 gap junction channels endogenously expressed and exogenously overexpressed in human choriocarcinoma cell lines. Pflugers Archiv European Journal of Physiology, 1996, 432, 501-509.	2.8	36
172	Transcriptomic changes in developing kidney exposed to chronic hypoxia. Biochemical and Biophysical Research Communications, 2006, 349, 329-338.	2.1	36
173	In Vitro Motility of Liver Connexin Vesicles along Microtubules Utilizes Kinesin Motors. Journal of Biological Chemistry, 2011, 286, 22875-22885.	3.4	36
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