David C Spray

List of Publications by Year
in descending order

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	Glioblastomaâ€"Astrocyte Connexin 43 Gap Junctions Promote Tumor Invasion. Molecular Cancer Research, 2022, 20, 319-331.	3.4	14
2	Generation and Characterization of Immortalized Mouse Cortical Astrocytes From Wildtype and Connexin43 Knockout Mice. Frontiers in Cellular Neuroscience, 2021, 15, 647109.	3.7	5
3	Retinal Genomic Fabric Remodeling after Optic Nerve Injury. Genes, 2021, 12, 403.	2.4	4
4	The Roles of Calmodulin and CaMKII in Cx36 Plasticity. International Journal of Molecular Sciences, 2021, 22, 4473.	4.1	7
5	Abstract 2885: Connexin 43-dependent miRNA transfer drives perivascular glioma invasion through dysregulation of astrocytes. , 2021, , .		1
6	Estrogen depletion on In vivo osteocyte calcium signaling responses to mechanical loading. Bone, 2021, 152, 116072.	2.9	15
7	Pannexin-1 channel opening is critical for COVID-19 pathogenesis. IScience, 2021, 24, 103478.	4.1	28
8	Cx43 carboxyl terminal domain determines AQP4 and Cx30 endfoot organization and blood brain barrier permeability. Scientific Reports, 2021, 11, 24334.	3.3	23
9	Apoptotic Osteocytes Induce RANKL Production in Bystanders via Purinergic Signaling and Activation of Pannexin Channels. Journal of Bone and Mineral Research, 2020, 35, 966-977.	2.8	30
10	Emerging importance of satellite glia in nervous system function and dysfunction. Nature Reviews Neuroscience, 2020, 21, 485-498.	10.2	189
11	The dynamic Nexus: gap junctions control protein localization and mobility in distinct and surprising ways. Scientific Reports, 2020, 10, 17011.	3.3	16
12	Cellular Environment Remodels the Genomic Fabrics of Functional Pathways in Astrocytes. Genes, 2020, 11, 520.	2.4	10
13	Trypanosoma cruzi Promotes Transcriptomic Remodeling of the JAK/STAT Signaling and Cell Cycle Pathways in Myoblasts. Frontiers in Cellular and Infection Microbiology, 2020, 10, 255.	3.9	11
14	Stress gates an astrocytic energy reservoir to impair synaptic plasticity. Nature Communications, 2020, 11, 2014.	12.8	89
15	Tubulin-Dependent Transport of Connexin-36 Potentiates the Size and Strength of Electrical Synapses. Cells, 2019, 8, 1146.	4.1	13
16	Gap junction mediated signaling between satellite glia and neurons in trigeminal ganglia. Glia, 2019, 67, 791-801.	4.9	52
17	Introduction to Connexins and Pannexins in the Healthy and Diseased Nervous System with Thanks to Felikas Bukauskas. Neuroscience Letters, 2019, 695, 1-3.	2.1	0
18	Gap junctions, pannexins and pain. Neuroscience Letters, 2019, 695, 46-52.	2.1	62

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19	Gap Junction Proteins (Connexins, Pannexins, and Innexins). , 2019, , 1-7.		0
20	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
21	Concentrative Transport of Antifolates Mediated by the Proton-Coupled Folate Transporter (SLC46A1); Augmentation by a HEPES Buffer. Molecular Pharmacology, 2018, 93, 208-215.	2.3	5
22	Functional genomic fabrics are remodeled in a mouse model of Chagasic cardiomyopathy and restored following cell therapy. Microbes and Infection, 2018, 20, 185-195.	1.9	14
23	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
24	Cysteine residues in the cytoplasmic carboxy terminus of connexins dictate gap junction plaque stability. Molecular Biology of the Cell, 2017, 28, 2757-2764.	2.1	8
25	Adrenergic Receptors on Astrocytes Modulate Gap Junctions. , 2017, , 127-144.		3
26	Structural and Functional Consequences of Connexin 36 (Cx36) Interaction with Calmodulin. Frontiers in Molecular Neuroscience, 2016, 9, 120.	2.9	21
27	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
28	Glial pannexin1 contributes to tactile hypersensitivity in a mouse model of orofacial pain. Scientific Reports, 2016, 6, 38266.	3.3	44
29	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
30	Coupled Activation of Primary Sensory Neurons Contributes to Chronic Pain. Neuron, 2016, 91, 1085-1096.	8.1	216
31	Connexin 43 Mediates White Adipose Tissue Beiging by Facilitating the Propagation of Sympathetic Neuronal Signals. Cell Metabolism, 2016, 24, 420-433.	16.2	80
32	Gap Junctions and Electric Synapses. , 2016, , 511-546.		0
33	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
34	Effect of mesenchymal stem cells and mouse embryonic fibroblasts on the development of preimplantation mouse embryos. In Vitro Cellular and Developmental Biology - Animal, 2016, 52, 497-506.	1.5	15
35	FRAP for the Study of Gap Junction Nexus Macromolecular Organization. , 2016, , 63-91.		4
36	P2X7R-Panx1 Complex Impairs Bone Mechanosignaling under High Glucose Levels Associated with Type-1 Diabetes. PLoS ONE, 2016, 11, e0155107.	2.5	51

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37	Endothelin-1 Mediates Brain Microvascular Dysfunction Leading to Long-Term Cognitive Impairment in a Model of Experimental Cerebral Malaria. PLoS Pathogens, 2016, 12, e1005477.	4.7	16
38	The effect of connexin 36 deletion on chemotherapy-induced peripheral neuropathy (CIPN).. Journal of Clinical Oncology, 2016, 34, 1-1.	1.6	21
39	The Einstein-Brazil Fogarty: A decade of synergy. Brazilian Journal of Microbiology, 2015, 46, 945-955.	2.0	2
40	Connexin Type and Fluorescent Protein Fusion Tag Determine Structural Stability of Gap Junction Plaques. Journal of Biological Chemistry, 2015, 290, 23497-23514.	3.4	32
41	Developments in the management of Chagas cardiomyopathy. Expert Review of Cardiovascular Therapy, 2015, 13, 1393-1409.	1.5	66
42	The role of pannexin 1 in chemotherapy-induced peripheral neuropathy (CIPN).. Journal of Clinical Oncology, 2015, 33, 6-6.	1.6	4
43	Human Liver Cell Trafficking Mutants: Characterization and Whole Exome Sequencing. PLoS ONE, 2014, 9, e87043.	2.5	0
44	Structural order in Pannexin 1 cytoplasmic domains. Channels, 2014, 8, 157-166.	2.8	11
45	Gap junctional communication in health and disease. Frontiers in Physiology, 2014, 5, 442.	2.8	2
46	Adipocytes in both brown and white adipose tissue of adult mice are functionally connected via gap junctions: implications for Chagas disease. Microbes and Infection, 2014, 16, 893-901.	1.9	30
47	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
48	Connexins modulate autophagosome biogenesis. Nature Cell Biology, 2014, 16, 401-414.	10.3	113
49	Molecular imaging, biodistribution and efficacy of mesenchymal bone marrow cell therapy in a mouse model of Chagas disease. Microbes and Infection, 2014, 16, 923-935.	1.9	31
50	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
51	Inhibitors of the 5-lipoxygenase pathway activate pannexin1 channels in macrophages via the thromboxane receptor. American Journal of Physiology - Cell Physiology, 2014, 307, C571-C579.	4.6	14
52	Satellite Glial Cells as a Target for Chronic Pain Therapy. , 2014, , 473-492.		1
53	Pannexin 1 Channels Play Essential Roles in Urothelial Mechanotransduction and Intercellular Signaling. PLoS ONE, 2014, 9, e106269.	2.5	39
54	Identification of a functional prostanoid-like receptor in the protozoan parasite, Trypanosoma cruzi. Parasitology Research, 2013, 112, 1417-1425.	1.6	9

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55	Transcriptome profiling of hippocampal CA1 after early-life seizure-induced preconditioning may elucidate new genetic therapies for epilepsy. European Journal of Neuroscience, 2013, 38, 2139-2152.	2.6	25
56	Interaction of the Glycocalyx with the Actin Cytoskeleton. Neuromethods, 2013, , 43-62.	0.3	1
57	Gap junctions and Bystander effects: Good Samaritans and executioners. Environmental Sciences Europe, 2013, 2, 1-15.	5.5	58
58	Gap Junctions, Electric Synapses. , 2013, , 439-473.		0
59	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
60	Promises and pitfalls of a Pannexin1 transgenic mouse line. Frontiers in Pharmacology, 2013, 4, 61.	3.5	64
61	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
62	Disruption of Calcium Homeostasis in Cardiomyocytes Underlies Cardiac Structural and Functional Changes in Severe Sepsis. PLoS ONE, 2013, 8, e68809.	2.5	47
63	High Glucose Attenuates Shear-Induced Changes in Endothelial Hydraulic Conductivity by Degrading the Glycocalyx. PLoS ONE, 2013, 8, e78954.	2.5	49
64	Glycocalyx Core Proteins Selectively Mediate Endothelial NOS activation and Cell Alignment in Response to Shear Stress. FASEB Journal, 2013, 27, 379.3.	0.5	1
65	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
66	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
67	Chagas Heart Disease. Cardiology in Review, 2012, 20, 53-65.	1.4	90
68	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
69	The connexin43-dependent transcriptome during brain development: Importance of genetic background. Brain Research, 2012, 1487, 131-139.	2.2	22
70	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
71	Electrical synapses getting translational. Brain Research, 2012, 1487, 1-2.	2.2	0
72	Extracellular K+ and Astrocyte Signaling via Connexin and Pannexin Channels. Neurochemical Research, 2012, 37, 2310-2316.	3.3	74

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73	Connexin43 and Pannexin1 Channels in Osteoblasts: Who Is the â€œHemichannelâ€?. Journal of Membrane Biology, 2012, 245, 401-409.	2.1	44
74	Altered Regulation of Akt Signaling with Murine Cerebral Malaria, Effects on Long-Term Neuro-Cognitive Function, Restoration with Lithium Treatment. PLoS ONE, 2012, 7, e44117.	2.5	25
75	High Sensitivity MEMS Biosensor for Monitoring Cell Attachment. , 2012, , .		0
76	ATP signaling is deficient in cultured pannexin1â€null mouse astrocytes. Glia, 2012, 60, 1106-1116.	4.9	147
77	Pannexin1-Mediated ATP Release Provides Signal Transmission Between Neuro2A Cells. Neurochemical Research, 2012, 37, 1355-1363.	3.3	22
78	Functional and Transcriptomic Recovery of Infarcted Mouse Myocardium Treated with Bone Marrow Mononuclear Cells. Stem Cell Reviews and Reports, 2012, 8, 251-261.	5.6	20
79	Glial cells in (patho)physiology. Journal of Neurochemistry, 2012, 121, 4-27.	3.9	460
80	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
81	Gap Junctions and Chagas Disease. Advances in Parasitology, 2011, 76, 63-81.	3.2	25
82	Silencing MaxiK Activity in Corporal Smooth Muscle Cells Initiates Compensatory Mechanisms to Maintain Calcium Homeostasis. Journal of Sexual Medicine, 2011, 8, 2191-2204.	0.6	7
83	Two non-vesicular ATP release pathways in the mouse erythrocyte membrane. FEBS Letters, 2011, 585, 3430-3435.	2.8	55
84	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
85	On the electrophysiological response of bone cells using a Stokesian fluid stimulus probe for delivery of quantifiable localized picoNewton level forces. Journal of Biomechanics, 2011, 44, 1702-1708.	2.1	29
86	Pannexin channels are not gap junction hemichannels. Channels, 2011, 5, 193-197.	2.8	305
87	In Vitro Motility of Liver Connexin Vesicles along Microtubules Utilizes Kinesin Motors. Journal of Biological Chemistry, 2011, 286, 22875-22885.	3.4	36
88	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
89	Piconewton Level Loading and Sub-Cellular Deformation of Bone Cells Using a Novel Stokesian Fluid Stimulus Probe (SFSP). , 2011, , .		0
90	Abstract P022: Functional and Transcriptomic Recovery of Infarcted Mouse Myocardium Treated with Bone Marrow Mononuclear Cells. Circulation Research, 2011, 109, .	4.5	0

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91	Sex-dependent gene regulatory networks of the heart rhythm. Functional and Integrative Genomics, 2010, 10, 73-86.	3.5	22
92	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
93	Persistent cognitive and motor deficits after successful antimalarial treatment in murine cerebral malaria. Microbes and Infection, 2010, 12, 1198-1207.	1.9	42
94	Modulatory effects of cAMP and PKC activation on gap junctional intercellular communication among thymic epithelial cells. BMC Cell Biology, 2010, 11, 3.	3.0	12
95	Cardiac gene expression and systemic cytokine profile are complementary in a murine model of post-ischemic heart failure. Brazilian Journal of Medical and Biological Research, 2010, 43, 377-389.	1.5	21
96	Characterization of hTERT-immortalized osteoblast cell lines generated from wild-type and connexin43-null mouse calvaria. American Journal of Physiology - Cell Physiology, 2010, 299, C994-C1006.	4.6	33
97	Transcriptomic Signatures of Alterations in a Myoblast Cell Line Infected with Four Distinct Strains of Trypanosoma cruzi. American Journal of Tropical Medicine and Hygiene, 2010, 82, 846-854.	1.4	24
98	Bidirectional calcium signaling between satellite glial cells and neurons in cultured mouse trigeminal ganglia. Neuron Glia Biology, 2010, 6, 43-51.	1.6	126
99	The Carboxyl-terminal Domain of Connexin43 Is a Negative Modulator of Neuronal Differentiation. Journal of Biological Chemistry, 2010, 285, 11836-11845.	3.4	43
100	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
101	Fluid Flow-induced Soluble Vascular Endothelial Growth Factor Isoforms Regulate Actin Adaptation in Osteoblasts. Journal of Biological Chemistry, 2010, 285, 30931-30941.	3.4	28
102	Trypanosoma cruziinfection results in the reduced expression of caveolin-3 in the heart. Cell Cycle, 2010, 9, 1639-1646.	2.6	20
103	Chemical Induction of Cardiac Differentiation in P19 Embryonal Carcinoma Stem Cells. Stem Cells and Development, 2010, 19, 403-412.	2.1	38
104	Mefloquine Blockade of Pannexin1 Currents: Resolution of a Conflict. Cell Communication and Adhesion, 2010, 16, 131-137.	1.0	62
105	Focal Inflammation Causes Carbenoxolone-Sensitive Tactile Hypersensitivity in Mice. Open Pain Journal, 2010, 3, 123-133.	0.4	29
106	Alterations in the Brain Transcriptome in<i>Plasmodium Berghei</i>ANKA Infected Mice. Journal of Neuroparasitology, 2010, 1, 1-8.	0.6	14
107	The Endothelial Glycocalyx In Vitro : Its Structure and The Role of Heparan Sulfate and Glypicanâ€1 in eNOS Activation by Flow. FASEB Journal, 2010, 24, 784.8.	0.5	2
108	Alterations in the Brain Transcriptome in ANKA Infected Mice. Journal of Neuroparasitology, 2010, 1, .	0.6	7

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109	Cell Therapy in Chagas Disease. Interdisciplinary Perspectives on Infectious Diseases, 2009, 2009, 1-6.	1.4	7
110	Pannexin 1: The Molecular Substrate of Astrocyte â€œHemichannelsâ€ Journal of Neuroscience, 2009, 29, 7092-7097.	3.6	335
111	Perspectives on Trypanosoma cruziâ€“Induced Heart Disease (Chagas Disease). Progress in Cardiovascular Diseases, 2009, 51, 524-539.	3.1	138
112	Trifluoroethanol reveals helical propensity at analogous positions in cytoplasmic domains of three connexins. Biopolymers, 2009, 92, 173-182.	2.4	18
113	Connexins, pannexins, innexins: novel roles of â€œhemi-channelsâ€ Pflugers Archiv European Journal of Physiology, 2009, 457, 1207-1226.	2.8	166
114	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
115	Transcriptomic alterations in Trypanosoma cruzi-infected cardiac myocytes. Microbes and Infection, 2009, 11, 1140-1149.	1.9	42
116	Automated Cell-Based Assay for Screening of Aquaporin Inhibitors. Analytical Chemistry, 2009, 81, 8219-8229.	6.5	62
117	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
118	Connexin Expression (Gap Junctions and Hemichannels) in Astrocytes. , 2009, , 107-150.		5
119	Point Mutation in the Mouse P2X₇ Receptor Affects Intercellular Calcium Waves in Astrocytes. ASN Neuro, 2009, 1, AN20090001.	2.7	37
120	Astrocytic 'power-grid': Delivery upon neuronal demand. Cellscience, 2009, 5, 34-43.	0.3	5
121	Effect of microgravity on gene expression in mouse brain. Experimental Brain Research, 2008, 191, 289-300.	1.5	48
122	IGF-I regulates tight-junction protein claudin-1 during differentiation of osteoblast-like MC3T3-E1 cells via a MAP-kinase pathway. Cell and Tissue Research, 2008, 334, 243-254.	2.9	32
123	Aquaporinâ€4 water channels in enteric neurons. Journal of Neuroscience Research, 2008, 86, 448-456.	2.9	30
124	Trypanosoma cruzi induces changes in cardiac connexin43 expression. Microbes and Infection, 2008, 10, 21-28.	1.9	26
125	P2X₇receptor-Pannexin1 complex: pharmacology and signaling. American Journal of Physiology - Cell Physiology, 2008, 295, C752-C760.	4.6	303
126	Alterations in myocardial gene expression associated with experimental Trypanosoma cruzi infection. Genomics, 2008, 91, 423-432.	2.9	29

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127	Lack of â€œHemichannelâ€•Activity in Insulin-Producing Cells. Cell Communication and Adhesion, 2008, 15, 143-154.	1.0	14
128	Similar Transcriptomic Alterations in Cx43 Knockdown and Knockout Astrocytes. Cell Communication and Adhesion, 2008, 15, 195-206.	1.0	48
129	Bone Marrow Cell Therapy Ameliorates and Reverses Chagasic Cardiomyopathy in a Mouse Model. Journal of Infectious Diseases, 2008, 197, 544-547.	4.0	58
130	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
131	Cognitive Dysfunction in Mice Infected with<i>Plasmodium berghei</i>Strain ANKA. Journal of Infectious Diseases, 2008, 197, 1621-1627.	4.0	57
132	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
133	Hypertension in connexin40-null mice: a renin disorder. Kidney International, 2007, 72, 781-782.	5.2	2
134	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
135	Pathology of mechanical and gap junctional co-coupling at the intercalated disc: Is sepsis a junctionopathy?*. Critical Care Medicine, 2007, 35, 2231-2232.	0.9	5
136	Connexin43 and the brain transcriptome of newborn mice. Genomics, 2007, 89, 113-123.	2.9	49
137	Pannexin1 is part of the pore forming unit of the P2X7receptor death complex. FEBS Letters, 2007, 581, 483-488.	2.8	402
138	Alteration of transcriptomic networks in adoptive-transfer experimental autoimmune encephalomyelitis. Frontiers in Integrative Neuroscience, 2007, 1, 10.	2.1	17
139	The role of connexins in controlling cell growth and gene expression. Progress in Biophysics and Molecular Biology, 2007, 94, 245-264.	2.9	147
140	Connexin-dependent transcellular transcriptomic networks in mouse brain. Progress in Biophysics and Molecular Biology, 2007, 94, 169-185.	2.9	58
141	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
142	Connexin and pannexin mediated cellâ€“cell communication. Neuron Glia Biology, 2007, 3, 199-208.	1.6	212
143	Connexins Induce and Maintain Tight Junctions in Epithelial Cells. Journal of Membrane Biology, 2007, 217, 13-19.	2.1	62
144	Gap Junction and Purinergic P2 Receptor Proteins as a Functional Unit: Insights from Transcriptomics. Journal of Membrane Biology, 2007, 217, 83-91.	2.1	27

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145	Organizational Principles of the Connexin-Related Brain Transcriptome. Journal of Membrane Biology, 2007, 218, 39-47.	2.1	40
146	Connexin 26 expression prevents down-regulation of barrier and fence functions of tight junctions by Na+/K+-ATPase inhibitor ouabain in human airway epithelial cell line Calu-3. Experimental Cell Research, 2006, 312, 3847-3856.	2.6	27
147	A Stochastic Two-Dimensional Model of Intercellular Ca2+ Wave Spread in Glia. Biophysical Journal, 2006, 90, 24-41.	0.5	65
148	Transcriptomic changes in developing kidney exposed to chronic hypoxia. Biochemical and Biophysical Research Communications, 2006, 349, 329-338.	2.1	36
149	Microarray technology in the investigation of diseases of myocardium with special reference to infection. Frontiers in Bioscience - Landmark, 2006, 11, 1802.	3.0	6
150	Transfection of mammalian cells with connexins and measurement of voltage sensitivity of their gap junctions. Nature Protocols, 2006, 1, 1799-1809.	12.0	33
151	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
152	Functional connexin â€œhemichannelsâ€: A critical appraisal. Glia, 2006, 54, 758-773.	4.9	297
153	Cardiac Connexins: Genes to Nexus. , 2006, 42, 1-17.		41
154	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
155	Illuminating gap junctions. Nature Methods, 2005, 2, 12-14.	19.0	13
156	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
157	Genes controlling multiple functional pathways are transcriptionally regulated in connexin43 null mouse heart. Physiological Genomics, 2005, 20, 211-223.	2.3	46
158	Regulation of Connexin43-Protein Binding in Astrocytes in Response to Chemical Ischemia/Hypoxia. Journal of Biological Chemistry, 2005, 280, 7941-7948.	3.4	66
159	New possible roles for aquaporinâ€4 in astrocytes: cell cytoskeleton and functional relationship with connexin43. FASEB Journal, 2005, 19, 1674-1676.	0.5	143
160	A Developmental Switch in the Expression of Aquaporin-4 and Kir4.1 from Horizontal to Mul̀ˆller Cells in Mouse Retina. , 2005, 46, 3869.		33
161	Blockade of Gap Junctions In Vivo Provides Neuroprotection After Perinatal Global Ischemia. Stroke, 2005, 36, 2232-2237.	2.0	121
162	Sensitivity of the brain transcriptome to connexin ablation. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1711, 183-196.	2.6	70

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163	Use of cDNA Arrays to Explore Gene Expression in Genetically Manipulated Mice and Cell Lines. , 2005, , 907-915.		3
164	Using Antibody Arrays to Detect Protein-Protein Interactions. , 2005, , 916-935.		0
165	Molecular Cloning and Functional Expression of zfCx52.6. Journal of Biological Chemistry, 2004, 279, 2913-2921.	3.4	48
166	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
167	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
168	Regulation of Connexin43 Protein Complexes by Intracellular Acidification. Circulation Research, 2004, 94, 215-222.	4.5	115
169	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
170	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
171	Alterations of intercellular communication in neonatal cardiac myocytes from connexin43 null mice. Cardiovascular Research, 2004, 62, 397-406.	3.8	22
172	Characterization of connexin 30.3 and 43 in thymocytes. Immunology Letters, 2004, 94, 65-75.	2.5	22
173	pH-Dependent Dimerization of the Carboxyl Terminal Domain of Cx43. Biophysical Journal, 2004, 87, 574-581.	0.5	54
174	Endotoxin unmasks the role of gap junctions in the liver. Biochemical and Biophysical Research Communications, 2004, 322, 718-726.	2.1	19
175	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
176	Gene expression alterations in connexin null mice extend beyond the gap junction. Neurochemistry International, 2004, 45, 243-250.	3.8	74
177	Mechanisms of glutamate release from astrocytes: gap junction â€œhemichannelsâ€, purinergic receptors and exocytotic release. Neurochemistry International, 2004, 45, 259-264.	3.8	148
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