

Brenda R Kwak

List of Publications by Year in descending order

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103
papers

8,012
citations

53794

45
h-index

49909

87
g-index

103
all docs

103
docs citations

103
times ranked

9550
citing authors

#	ARTICLE	IF	CITATIONS
1	Statins as a newly recognized type of immunomodulator. <i>Nature Medicine</i> , 2000, 6, 1399-1402.	30.7	1,271
2	Consensus guidelines for the use and interpretation of angiogenesis assays. <i>Angiogenesis</i> , 2018, 21, 425-532.	7.2	429
3	Biomechanical factors in atherosclerosis: mechanisms and clinical implications. <i>European Heart Journal</i> , 2014, 35, 3013-3020.	2.2	359
4	Mechanotransduction, PROX1, and FOXC2 Cooperate to Control Connexin37 and Calcineurin during Lymphatic-Valve Formation. <i>Developmental Cell</i> , 2012, 22, 430-445.	7.0	339
5	Connexin37 protects against atherosclerosis by regulating monocyte adhesion. <i>Nature Medicine</i> , 2006, 12, 950-954.	30.7	259
6	Altered Pattern of Vascular Connexin Expression in Atherosclerotic Plaques. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002, 22, 225-230.	2.4	199
7	Exosomes secreted by cardiomyocytes subjected to ischaemia promote cardiac angiogenesis. <i>Cardiovascular Research</i> , 2017, 113, 1338-1350.	3.8	193
8	Connexins in Cardiovascular and Neurovascular Health and Disease: Pharmacological Implications. <i>Pharmacological Reviews</i> , 2017, 69, 396-478.	16.0	191
9	FOXC2 and fluid shear stress stabilize postnatal lymphatic vasculature. <i>Journal of Clinical Investigation</i> , 2015, 125, 3861-3877.	8.2	186
10	Atherosclerosis at arterial bifurcations: evidence for the role of haemodynamics and geometry. <i>Thrombosis and Haemostasis</i> , 2016, 115, 484-492.	3.4	172
11	Connexins in Vascular Physiology and Pathology. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 267-282.	5.4	160
12	Reduced Connexin43 Expression Inhibits Atherosclerotic Lesion Formation in Low-Density Lipoprotein Receptor-Deficient Mice. <i>Circulation</i> , 2003, 107, 1033-1039.	1.6	155
13	Regulation of cardiac gap junction channel permeability and conductance by several phosphorylating conditions. <i>Molecular and Cellular Biochemistry</i> , 1996, 157, 93-9.	3.1	145
14	TPA Increases Conductance but Decreases Permeability in Neonatal Rat Cardiomyocyte Gap Junction Channels. <i>Experimental Cell Research</i> , 1995, 220, 456-463.	2.6	143
15	Stabilisation of atherosclerotic plaques. <i>Thrombosis and Haemostasis</i> , 2011, 106, 1-19.	3.4	139
16	Mutations in connexin genes and disease. <i>European Journal of Clinical Investigation</i> , 2011, 41, 103-116.	3.4	138
17	Hypoxic pulmonary vasoconstriction requires connexin 40-mediated endothelial signal conduction. <i>Journal of Clinical Investigation</i> , 2012, 122, 4218-4230.	8.2	134
18	Role of connexin 43 in different forms of intercellular communication – gap junctions, extracellular vesicles and tunnelling nanotubes. <i>Journal of Cell Science</i> , 2017, 130, 3619-3630.	2.0	119

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19	Characterization of Gap Junction Channels in Adult Rabbit Atrial and Ventricular Myocardium. <i>Circulation Research</i> , 1997, 80, 673-681.	4.5	117
20	Gap junctional communication in tissue inflammation and repair. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1711, 197-207.	2.6	114
21	Adipokines at the crossroad between obesity and cardiovascular disease. <i>Thrombosis and Haemostasis</i> , 2015, 113, 553-566.	3.4	105
22	Stabilization of atherosclerotic plaques: an update. <i>European Heart Journal</i> , 2013, 34, 3251-3258.	2.2	101
23	Effects of cGMP-dependent phosphorylation on rat and human connexin43 gap junction channels. <i>Pflugers Archiv European Journal of Physiology</i> , 1995, 430, 770-778.	2.8	95
24	Inhibition of Endothelial Wound Repair by Dominant Negative Connexin Inhibitors. <i>Molecular Biology of the Cell</i> , 2001, 12, 831-845.	2.1	94
25	Atherosclerosis: anti-inflammatory and immunomodulatory activities of statins. <i>Autoimmunity Reviews</i> , 2003, 2, 332-338.	5.8	94
26	Connexin43 modulates neutrophil recruitment to the lung. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 4560-4570.	3.6	93
27	Connexins and their channels in inflammation. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2016, 51, 413-439.	5.2	93
28	Reduced Connexin43 Expression Limits Neointima Formation After Balloon Distension Injury in Hypercholesterolemic Mice. <i>Circulation</i> , 2006, 113, 2835-2843.	1.6	92
29	Connexins in atherosclerosis. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 157-166.	2.6	80
30	Statins Inhibit Leukocyte Recruitment. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001, 21, 1256-1258.	2.4	72
31	Gap Junction Protein Cx37 Interacts With Endothelial Nitric Oxide Synthase in Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 827-834.	2.4	72
32	Selective inhibition of gap junction channel activity by synthetic peptides. <i>Journal of Physiology</i> , 1999, 516, 679-685.	2.9	67
33	Shear stress modulates the expression of the atheroprotective protein Cx37 in endothelial cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 53, 299-309.	1.9	65
34	Connexin Channel-Dependent Signaling Pathways in Inflammation. <i>Journal of Vascular Research</i> , 2011, 48, 91-103.	1.4	64
35	Central Role of P2Y ₆ UDP Receptor in Arteriolar Myogenic Tone. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 1598-1606.	2.4	64
36	Diabetes Mellitus Is Associated With Reduced High-Density Lipoprotein Sphingosine-1-Phosphate Content and Impaired High-Density Lipoprotein Cardiac Cell Protection. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 817-824.	2.4	61

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37	Role of hemodynamics in initiation/growth of intracranial aneurysms. <i>European Journal of Clinical Investigation</i> , 2018, 48, e12992.	3.4	57
38	Targeting Connexin 43 Prevents Platelet-Derived Growth Factor-Induced Phenotypic Change in Porcine Coronary Artery Smooth Muscle Cells. <i>Circulation Research</i> , 2008, 102, 653-660.	4.5	56
39	Sphingosine-1-phosphate reduces ischaemia-reperfusion injury by phosphorylating the gap junction protein Connexin43. <i>Cardiovascular Research</i> , 2016, 109, 385-396.	3.8	55
40	Biological Functions of Connexin43 Beyond Intercellular Communication. <i>Trends in Cell Biology</i> , 2019, 29, 835-847.	7.9	54
41	PPAR β but not PPAR α Ligands Are Potent Repressors of Major Histocompatibility Complex Class II Induction in Atheroma-Associated Cells. <i>Circulation Research</i> , 2002, 90, 356-362.	4.5	52
42	Do allelic variants of the connexin37 1019 gene polymorphism differentially predict for coronary artery disease and myocardial infarction?. <i>Atherosclerosis</i> , 2007, 191, 355-361.	0.8	50
43	Mitochondrial ion channels as targets for cardioprotection. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 7102-7114.	3.6	48
44	Shear Stress and Cyclic Circumferential Stretch, But Not Pressure, Alter Connexin43 Expression in Endothelial Cells. <i>Cell Communication and Adhesion</i> , 2005, 12, 261-270.	1.0	47
45	Lymphatic vessels: an emerging actor in atherosclerotic plaque development. <i>European Journal of Clinical Investigation</i> , 2015, 45, 100-108.	3.4	47
46	Connexin 37 Limits Thrombus Propensity by Downregulating Platelet Reactivity. <i>Circulation</i> , 2011, 124, 930-939.	1.6	46
47	Functional differences between human Cx37 polymorphic hemichannels. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 499-507.	1.9	42
48	Connexins and Pannexins in Vascular Function and Disease. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1663.	4.1	42
49	Unexpected role for the human Cx37 C1019T polymorphism in tumour cell proliferation. <i>Carcinogenesis</i> , 2010, 31, 1922-1931.	2.8	41
50	ATP amplifies NADPH-dependent and -independent neutrophil extracellular trap formation. <i>Scientific Reports</i> , 2019, 9, 16556.	3.3	41
51	Connexins in leukocytes: shuttling messages?. <i>Cardiovascular Research</i> , 2004, 62, 357-367.	3.8	40
52	Regulation of cardiovascular connexins by mechanical forces and junctions. <i>Cardiovascular Research</i> , 2013, 99, 304-314.	3.8	38
53	Dual Benefit of Reduced Cx43 on Atherosclerosis in LDL Receptor-Deficient Mice. <i>Cell Communication and Adhesion</i> , 2003, 10, 395-400.	1.0	37
54	The natural cardioprotective particle HDL modulates connexin43 gap junction channels. <i>Cardiovascular Research</i> , 2012, 93, 41-49.	3.8	37

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55	Connexins in lymphatic vessel physiology and disease. <i>FEBS Letters</i> , 2014, 588, 1271-1277.	2.8	37
56	Role of connexins and pannexins in cardiovascular physiology. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 2779-2792.	5.4	37
57	Artery-Associated Sympathetic Innervation Drives Rhythmic Vascular Inflammation of Arteries and Veins. <i>Circulation</i> , 2019, 140, 1100-1114.	1.6	37
58	Connexin37: a potential modifier gene of inflammatory disease. <i>Journal of Molecular Medicine</i> , 2007, 85, 787-795.	3.9	36
59	Functional role of a polymorphism in the Pannexin1 gene in collagen-induced platelet aggregation. <i>Thrombosis and Haemostasis</i> , 2015, 114, 325-336.	3.4	34
60	Correlating Clinical Risk Factors and Histological Features in Ruptured and Unruptured Human Intracranial Aneurysms: The Swiss AneuX Study. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2018, 77, 555-566.	1.7	34
61	Impaired SMAD1/5 Mechanotransduction and Cx37 (Connexin37) Expression Enable Pathological Vessel Enlargement and Shunting. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, e87-e104.	2.4	33
62	Intercellular Communication in Atherosclerosis. <i>Physiology</i> , 2009, 24, 36-44.	3.1	32
63	Endothelial Cx40 limits myocardial ischaemia/reperfusion injury in mice. <i>Cardiovascular Research</i> , 2014, 102, 329-337.	3.8	30
64	Endothelial Connexin37 and Connexin40 participate in basal but not agonist-induced NO release. <i>Cell Communication and Signaling</i> , 2015, 13, 34.	6.5	30
65	Connexins participate in the initiation and progression of atherosclerosis. <i>Seminars in Immunopathology</i> , 2009, 31, 49-61.	6.1	29
66	Mutations in cardiovascular connexin genes. <i>Biology of the Cell</i> , 2014, 106, 269-293.	2.0	29
67	Human venous valve disease caused by mutations in <i>FOXC2</i> and <i>GJC2</i> . <i>Journal of Experimental Medicine</i> , 2017, 214, 2437-2452.	8.5	29
68	Chronic fructose renders pancreatic β -cells hyper-responsive to glucose-stimulated insulin secretion through extracellular ATP signaling. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E25-E41.	3.5	28
69	Disturbed flow induces a sustained, stochastic NF- κ B activation which may support intracranial aneurysm growth in vivo. <i>Scientific Reports</i> , 2019, 9, 4738.	3.3	25
70	KLF4-Induced Connexin40 Expression Contributes to Arterial Endothelial Quiescence. <i>Frontiers in Physiology</i> , 2019, 10, 80.	2.8	24
71	Canonical and Non-Canonical Roles of Connexin43 in Cardioprotection. <i>Biomolecules</i> , 2020, 10, 1225.	4.0	24
72	Endothelial connexins in vascular function. <i>Vascular Biology (Bristol, England)</i> , 2019, 1, H117-H124.	3.2	20

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73	Titration of the gap junction protein Connexin43 reduces atherogenesis. <i>Thrombosis and Haemostasis</i> , 2014, 112, 390-401.	3.4	19
74	Divergent JAM-C Expression Accelerates Monocyte-Derived Cell Exit from Atherosclerotic Plaques. <i>PLoS ONE</i> , 2016, 11, e0159679.	2.5	19
75	Atherosclerosis severity is not affected by a deficiency in IL-33/ST2 signaling. <i>Immunity, Inflammation and Disease</i> , 2015, 3, 239-246.	2.7	18
76	Pannexin1 links lymphatic function to lipid metabolism and atherosclerosis. <i>Scientific Reports</i> , 2017, 7, 13706.	3.3	18
77	Browning of White Adipose Tissue as a Therapeutic Tool in the Fight against Atherosclerosis. <i>Metabolites</i> , 2021, 11, 319.	2.9	18
78	Dual Benefit of Reduced Cx43 on Atherosclerosis in LDL Receptor-Deficient Mice. <i>Cell Communication and Adhesion</i> , 2003, 10, 395-400.	1.0	18
79	Neutralization of S100A4 induces stabilization of atherosclerotic plaques: role of smooth muscle cells. <i>Cardiovascular Research</i> , 2022, 118, 141-155.	3.8	17
80	Cx47 fine-tunes the handling of serum lipids but is dispensable for lymphatic vascular function. <i>PLoS ONE</i> , 2017, 12, e0181476.	2.5	17
81	Roles of Connexins in Atherosclerosis and Ischemia-Reperfusion Injury. <i>Current Pharmaceutical Biotechnology</i> , 2012, 13, 17-26.	1.6	16
82	Pannexin- and Connexin-Mediated Intercellular Communication in Platelet Function. <i>International Journal of Molecular Sciences</i> , 2017, 18, 850.	4.1	16
83	Differential Association of Cx37 and Cx40 Genetic Variants in Atrial Fibrillation with and without Underlying Structural Heart Disease. <i>International Journal of Molecular Sciences</i> , 2018, 19, 295.	4.1	15
84	Lack of association between connexin40 polymorphisms and coronary artery disease. <i>Atherosclerosis</i> , 2012, 222, 148-153.	0.8	14
85	Non-canonical roles of connexins. <i>Progress in Biophysics and Molecular Biology</i> , 2020, 153, 35-41.	2.9	14
86	Selective inhibition of Panx1 channels decreases hemostasis and thrombosis in vivo. <i>Thrombosis Research</i> , 2019, 183, 56-62.	1.7	12
87	Primary cilia control endothelial permeability by regulating expression and location of junction proteins. <i>Cardiovascular Research</i> , 2022, 118, 1583-1596.	3.8	12
88	Connexin40 controls endothelial activation by dampening NF- κ B activation. <i>Oncotarget</i> , 2017, 8, 50972-50986.	1.8	12
89	Risky communication in atherosclerosis and thrombus formation. <i>Swiss Medical Weekly</i> , 2012, 142, w13553.	1.6	12
90	Dendritic Cell Migration Toward CCL21 Gradient Requires Functional Cx43. <i>Frontiers in Physiology</i> , 2018, 9, 288.	2.8	11

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91	Pannexin1 Single Nucleotide Polymorphism and Platelet Reactivity in a Cohort of Cardiovascular Patients. <i>Cell Communication and Adhesion</i> , 2017, 23, 11-15.	1.0	10
92	Effects of Low and High Aneurysmal Wall Shear Stress on Endothelial Cell Behavior: Differences and Similarities. <i>Frontiers in Physiology</i> , 2021, 12, 727338.	2.8	10
93	Activation of the Hypoxia-Inducible Factor Pathway Inhibits Epithelial Sodium Channel-Mediated Sodium Transport in Collecting Duct Principal Cells. <i>Journal of the American Society of Nephrology: JASN</i> , 2021, 32, 3130-3145.	6.1	9
94	Intracranial aneurysm wall (in)stability—current state of knowledge and clinical perspectives. <i>Neurosurgical Review</i> , 2022, 45, 1233-1253.	2.4	9
95	Sex-related differences in wall remodeling and intraluminal thrombus resolution in a rat saccular aneurysm model. <i>Journal of Neurosurgery</i> , 2019, , 1-14.	1.6	8
96	Effect of Aneurysm and Patient Characteristics on Intracranial Aneurysm Wall Thickness. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 775307.	2.4	8
97	Comparison between direct and reverse electroporation of cells in situ: a simulation study. <i>Physiological Reports</i> , 2016, 4, e12673.	1.7	7
98	Detecting early myocardial ischemia in rat heart by MALDI imaging mass spectrometry. <i>Scientific Reports</i> , 2021, 11, 5135.	3.3	6
99	Lymphatic Connexins and Pannexins in Health and Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5734.	4.1	6
100	An Overview of the Focus of the International Gap Junction Conference 2017 and Future Perspectives. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2823.	4.1	3
101	RB459 and RB462 antibodies recognize mouse Pannexin1 protein by immunofluorescent staining. <i>Antibody Reports</i> , 2019, 2, e39.	0.1	3
102	A Genetic Polymorphism in the Pannexin1 Gene Predisposes for The Development of Endothelial Dysfunction with Increasing BMI. <i>Biomolecules</i> , 2020, 10, 208.	4.0	2
103	Abstract 3716: Endothelial-specific Deletion Of The Gap Junction Protein Connexin43 Reduces Atherosclerosis In Mice. <i>Circulation</i> , 2008, 118, .	1.6	1