Brenda R Kwak

List of Publications by Year
in descending order

103 papers	8,012 citations	53660 45 h-index	49773 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. Nature Medicine, 2000, 6, 1399-1402.	15.2	1,271
2	Consensus guidelines for the use and interpretation of angiogenesis assays. Angiogenesis, 2018, 21, 425-532.	3.7	429
3	Biomechanical factors in atherosclerosis: mechanisms and clinical implications. European Heart Journal, 2014, 35, 3013-3020.	1.0	359
4	Mechanotransduction, PROX1, and FOXC2 Cooperate to Control Connexin37 and Calcineurin during Lymphatic-Valve Formation. Developmental Cell, 2012, 22, 430-445.	3.1	339
5	Connexin37 protects against atherosclerosis by regulating monocyte adhesion. Nature Medicine, 2006, 12, 950-954.	15.2	259
6	Altered Pattern of Vascular Connexin Expression in Atherosclerotic Plaques. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 225-230.	1.1	199
7	Exosomes secreted by cardiomyocytes subjected to ischaemia promote cardiac angiogenesis. Cardiovascular Research, 2017, 113, 1338-1350.	1.8	193
8	Connexins in Cardiovascular and Neurovascular Health and Disease: Pharmacological Implications. Pharmacological Reviews, 2017, 69, 396-478.	7.1	191
9	FOXC2 and fluid shear stress stabilize postnatal lymphatic vasculature. Journal of Clinical Investigation, 2015, 125, 3861-3877.	3.9	186
10	Atherosclerosis at arterial bifurcations: evidence for the role of haemodynamics and geometry. Thrombosis and Haemostasis, 2016, 115, 484-492.	1.8	172
11	Connexins in Vascular Physiology and Pathology. Antioxidants and Redox Signaling, 2009, 11, 267-282.	2.5	160
12	Reduced Connexin43 Expression Inhibits Atherosclerotic Lesion Formation in Low-Density Lipoprotein Receptorâ€"Deficient Mice. Circulation, 2003, 107, 1033-1039.	1.6	155
13	Regulation of cardiac gap junction channel permeability and conductance by several phosphorylating conditions. Molecular and Cellular Biochemistry, 1996, 157, 93-9.	1.4	145
14	TPA Increases Conductance but Decreases Permeability in Neonatal Rat Cardiomyocyte Gap Junction Channels. Experimental Cell Research, 1995, 220, 456-463.	1.2	143
15	Stabilisation of atherosclerotic plaques. Thrombosis and Haemostasis, 2011, 106, 1-19.	1.8	139
16	Mutations in connexin genes and disease. European Journal of Clinical Investigation, 2011, 41, 103-116.	1.7	138
17	Hypoxic pulmonary vasoconstriction requires connexin 40â€"mediated endothelial signal conduction. Journal of Clinical Investigation, 2012, 122, 4218-4230.	3.9	134
18	Role of connexin 43 in different forms of intercellular communication â€" gap junctions, extracellular vesicles and tunnelling nanotubes. Journal of Cell Science, 2017, 130, 3619-3630.	1.2	119

#	ARTICLE	IF	CITATIONS
19	Characterization of Gap Junction Channels in Adult Rabbit Atrial and Ventricular Myocardium. Circulation Research, 1997, 80, 673-681.	2.0	117
20	Gap junctional communication in tissue inflammation and repair. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1711, 197-207.	1.4	114
21	Adipokines at the crossroad between obesity and cardiovascular disease. Thrombosis and Haemostasis, 2015, 113, 553-566.	1.8	105
22	Stabilization of atherosclerotic plaques: an update. European Heart Journal, 2013, 34, 3251-3258.	1.0	101
23	Effects of cGMP-dependent phosphorylation on rat and human connexin43 gap junction channels. Pflugers Archiv European Journal of Physiology, 1995, 430, 770-778.	1.3	95
24	Inhibition of Endothelial Wound Repair by Dominant Negative Connexin Inhibitors. Molecular Biology of the Cell, 2001, 12, 831-845.	0.9	94
25	Atherosclerosis: anti-inflammatory and immunomodulatory activities of statins. Autoimmunity Reviews, 2003, 2, 332-338.	2.5	94
26	Connexin43 modulates neutrophil recruitment to the lung. Journal of Cellular and Molecular Medicine, 2009, 13, 4560-4570.	1.6	93
27	Connexins and their channels in inflammation. Critical Reviews in Biochemistry and Molecular Biology, 2016, 51, 413-439.	2.3	93
28	Reduced Connexin43 Expression Limits Neointima Formation After Balloon Distension Injury in Hypercholesterolemic Mice. Circulation, 2006, 113, 2835-2843.	1.6	92
29	Connexins in atherosclerosis. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 157-166.	1.4	80
30	Statins Inhibit Leukocyte Recruitment. Arteriosclerosis, Thrombosis, and Vascular Biology, 2001, 21, 1256-1258.	1.1	72
31	Gap Junction Protein Cx37 Interacts With Endothelial Nitric Oxide Synthase in Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 827-834.	1.1	72
32	Selective inhibition of gap junction channel activity by synthetic peptides. Journal of Physiology, 1999, 516, 679-685.	1.3	67
33	Shear stress modulates the expression of the atheroprotective protein Cx37 in endothelial cells. Journal of Molecular and Cellular Cardiology, 2012, 53, 299-309.	0.9	65
34	Connexin Channel-Dependent Signaling Pathways in Inflammation. Journal of Vascular Research, 2011, 48, 91-103.	0.6	64
35	Central Role of P2Y ₆ UDP Receptor in Arteriolar Myogenic Tone. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1598-1606.	1.1	64
36	Diabetes Mellitus Is Associated With Reduced High-Density Lipoprotein Sphingosine-1-Phosphate Content and Impaired High-Density Lipoprotein Cardiac Cell Protection. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 817-824.	1.1	61

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37	Role of hemodynamics in initiation/growth of intracranial aneurysms. European Journal of Clinical Investigation, 2018, 48, e12992.	1.7	57
38	Targeting Connexin 43 Prevents Platelet-Derived Growth Factor-BBâ€"Induced Phenotypic Change in Porcine Coronary Artery Smooth Muscle Cells. Circulation Research, 2008, 102, 653-660.	2.0	56
39	Sphingosine-1-phosphate reduces ischaemiaâ€"reperfusion injury by phosphorylating the gap junction protein Connexin43. Cardiovascular Research, 2016, 109, 385-396.	1.8	55
40	Biological Functions of Connexin43 Beyond Intercellular Communication. Trends in Cell Biology, 2019, 29, 835-847.	3.6	54
41	PPARÎ³ but not PPARÎ± Ligands Are Potent Repressors of Major Histocompatibility Complex Class II Induction in Atheroma-Associated Cells. Circulation Research, 2002, 90, 356-362.	2.0	52
42	Do allelic variants of the connexin37 1019 gene polymorphism differentially predict for coronary artery disease and myocardial infarction?. Atherosclerosis, 2007, 191, 355-361.	0.4	50
43	Mitochondrial ion channels as targets for cardioprotection. Journal of Cellular and Molecular Medicine, 2020, 24, 7102-7114.	1.6	48
44	Shear Stress and Cyclic Circumferential Stretch, But Not Pressure, Alter Connexin43 Expression in Endothelial Cells. Cell Communication and Adhesion, 2005, 12, 261-270.	1.0	47
45	Lymphatic vessels: an emerging actor in atherosclerotic plaque development. European Journal of Clinical Investigation, 2015, 45, 100-108.	1.7	47
46	Connexin 37 Limits Thrombus Propensity by Downregulating Platelet Reactivity. Circulation, 2011, 124, 930-939.	1.6	46
47	Functional differences between human Cx37 polymorphic hemichannels. Journal of Molecular and Cellular Cardiology, 2009, 46, 499-507.	0.9	42
48	Connexins and Pannexins in Vascular Function and Disease. International Journal of Molecular Sciences, 2018, 19, 1663.	1.8	42
49	Unexpected role for the human Cx37 C1019T polymorphism in tumour cell proliferation. Carcinogenesis, 2010, 31, 1922-1931.	1.3	41
50	ATP amplifies NADPH-dependent and -independent neutrophil extracellular trap formation. Scientific Reports, 2019, 9, 16556.	1.6	41
51	Connexins in leukocytes: shuttling messages?. Cardiovascular Research, 2004, 62, 357-367.	1.8	40
52	Regulation of cardiovascular connexins by mechanical forces and junctions. Cardiovascular Research, 2013, 99, 304-314.	1.8	38
53	Dual Benefit of Reduced Cx43 on Atherosclerosis in LDL Receptor-Deficient Mice. Cell Communication and Adhesion, 2003, 10, 395-400.	1.0	37
54	The natural cardioprotective particle HDL modulates connexin43 gap junction channels. Cardiovascular Research, 2012, 93, 41-49.	1.8	37

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55	Connexins in lymphatic vessel physiology and disease. FEBS Letters, 2014, 588, 1271-1277.	1.3	37
56	Role of connexins and pannexins in cardiovascular physiology. Cellular and Molecular Life Sciences, 2015, 72, 2779-2792.	2.4	37
57	Artery-Associated Sympathetic Innervation Drives Rhythmic Vascular Inflammation of Arteries and Veins. Circulation, 2019, 140, 1100-1114.	1.6	37
58	Connexin37: a potential modifier gene of inflammatory disease. Journal of Molecular Medicine, 2007, 85, 787-795.	1.7	36
59	Functional role of a polymorphism in the Pannexin1 gene in collageninduced platelet aggregation. Thrombosis and Haemostasis, 2015, 114, 325-336.	1.8	34
60	Correlating Clinical Risk Factors and Histological Features in Ruptured and Unruptured Human Intracranial Aneurysms: The Swiss AneuX Study. Journal of Neuropathology and Experimental Neurology, 2018, 77, 555-566.	0.9	34
61	Impaired SMAD1/5 Mechanotransduction and Cx37 (Connexin37) Expression Enable Pathological Vessel Enlargement and Shunting. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, e87-e104.	1.1	33
62	Intercellular Communication in Atherosclerosis. Physiology, 2009, 24, 36-44.	1.6	32
63	Endothelial Cx40 limits myocardial ischaemia/reperfusion injury in mice. Cardiovascular Research, 2014, 102, 329-337.	1.8	30
64	Endothelial Connexin37 and Connexin40 participate in basal but not agonist-induced NO release. Cell Communication and Signaling, 2015, 13, 34.	2.7	30
65	Connexins participate in the initiation and progression of atherosclerosis. Seminars in Immunopathology, 2009, 31, 49-61.	2.8	29
66	Mutations in cardiovascular connexin genes. Biology of the Cell, 2014, 106, 269-293.	0.7	29
67	Human venous valve disease caused by mutations in <i>FOXC2</i> and <i>GJC2</i>. Journal of Experimental Medicine, 2017, 214, 2437-2452.	4.2	29
68	Chronic fructose renders pancreatic Î²-cells hyper-responsive to glucose-stimulated insulin secretion through extracellular ATP signaling. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E25-E41.	1.8	28
69	Disturbed flow induces a sustained, stochastic NF-ÎºB activation which may support intracranial aneurysm growth in vivo. Scientific Reports, 2019, 9, 4738.	1.6	25
70	KLF4-Induced Connexin40 Expression Contributes to Arterial Endothelial Quiescence. Frontiers in Physiology, 2019, 10, 80.	1.3	24
71	Canonical and Non-Canonical Roles of Connexin43 in Cardioprotection. Biomolecules, 2020, 10, 1225.	1.8	24
72	Endothelial connexins in vascular function. Vascular Biology (Bristol, England), 2019, 1, H117-H124.	1.2	20

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73	Titration of the gap junction protein Connexin43 reduces atherogenesis. Thrombosis and Haemostasis, 2014, 112, 390-401.	1.8	19
74	Divergent JAM-C Expression Accelerates Monocyte-Derived Cell Exit from Atherosclerotic Plaques. PLoS ONE, 2016, 11, e0159679.	1.1	19
75	Atherosclerosis severity is not affected by a deficiency in ILâ€33/ST2 signaling. Immunity, Inflammation and Disease, 2015, 3, 239-246.	1.3	18
76	Pannexin1 links lymphatic function to lipid metabolism and atherosclerosis. Scientific Reports, 2017, 7, 13706.	1.6	18
77	Browning of White Adipose Tissue as a Therapeutic Tool in the Fight against Atherosclerosis. Metabolites, 2021, 11, 319.	1.3	18
78	Dual Benefit of Reduced Cx43 on Atherosclerosis in LDL Receptor-Deficient Mice. Cell Communication and Adhesion, 2003, 10, 395-400.	1.0	18
79	Neutralization of S100A4 induces stabilization of atherosclerotic plaques: role of smooth muscle cells. Cardiovascular Research, 2022, 118, 141-155.	1.8	17
80	Cx47 fine-tunes the handling of serum lipids but is dispensable for lymphatic vascular function. PLoS ONE, 2017, 12, e0181476.	1.1	17
81	Roles of Connexins in Atherosclerosis and Ischemia-Reperfusion Injury. Current Pharmaceutical Biotechnology, 2012, 13, 17-26.	0.9	16
82	Pannexin- and Connexin-Mediated Intercellular Communication in Platelet Function. International Journal of Molecular Sciences, 2017, 18, 850.	1.8	16
83	Differential Association of Cx37 and Cx40 Genetic Variants in Atrial Fibrillation with and without Underlying Structural Heart Disease. International Journal of Molecular Sciences, 2018, 19, 295.	1.8	15
84	Lack of association between connexin40 polymorphisms and coronary artery disease. Atherosclerosis, 2012, 222, 148-153.	0.4	14
85	Non-canonical roles of connexins. Progress in Biophysics and Molecular Biology, 2020, 153, 35-41.	1.4	14
86	Selective inhibition of Panx1 channels decreases hemostasis and thrombosis in vivo. Thrombosis Research, 2019, 183, 56-62.	0.8	12
87	Primary cilia control endothelial permeability by regulating expression and location of junction proteins. Cardiovascular Research, 2022, 118, 1583-1596.	1.8	12
88	Connexin40 controls endothelial activation by dampening NFÎºB activation. Oncotarget, 2017, 8, 50972-50986.	0.8	12
89	Risky communication in atherosclerosis and thrombus formation. Swiss Medical Weekly, 2012, 142, w13553.	0.8	12
90	Dendritic Cell Migration Toward CCL21 Gradient Requires Functional Cx43. Frontiers in Physiology, 2018, 9, 288.	1.3	11

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91	Pannexin1 Single Nucleotide Polymorphism and Platelet Reactivity in a Cohort of Cardiovascular Patients. Cell Communication and Adhesion, 2017, 23, 11-15.	1.0	10
92	Effects of Low and High Aneurysmal Wall Shear Stress on Endothelial Cell Behavior: Differences and Similarities. Frontiers in Physiology, 2021, 12, 727338.	1.3	10
93	Activation of the Hypoxia-Inducible Factor Pathway Inhibits Epithelial Sodium Channelâ€“Mediated Sodium Transport in Collecting Duct Principal Cells. Journal of the American Society of Nephrology: JASN, 2021, 32, 3130-3145.	3.0	9
94	Intracranial aneurysm wall (in)stabilityâ€"current state of knowledge and clinical perspectives. Neurosurgical Review, 2022, 45, 1233-1253.	1.2	9
95	Sex-related differences in wall remodeling and intraluminal thrombus resolution in a rat saccular aneurysm model. Journal of Neurosurgery, 2019, , 1-14.	0.9	8
96	Effect of Aneurysm and Patient Characteristics on Intracranial Aneurysm Wall Thickness. Frontiers in Cardiovascular Medicine, 2021, 8, 775307.	1.1	8
97	Comparison between direct and reverse electroporation of cells inÂsitu: a simulation study. Physiological Reports, 2016, 4, e12673.	0.7	7
98	Detecting early myocardial ischemia in rat heart by MALDI imaging mass spectrometry. Scientific Reports, 2021, 11, 5135.	1.6	6
99	Lymphatic Connexins and Pannexins in Health and Disease. International Journal of Molecular Sciences, 2021, 22, 5734.	1.8	6
100	An Overview of the Focus of the International Gap Junction Conference 2017 and Future Perspectives. International Journal of Molecular Sciences, 2018, 19, 2823.	1.8	3
101	RB459 and RB462 antibodies recognize mouse Pannexin1 protein by immunofluorescent staining. Antibody Reports, 2019, 2, e39.	0.0	3
102	A Genetic Polymorphism in the Pannexin1 Gene Predisposes for The Development of Endothelial Dysfunction with Increasing BMI. Biomolecules, 2020, 10, 208.	1.8	2
103	Abstract 3716: Endothelial-specific Deletion Of The Gap Junction Protein Connexin43 Reduces Atherosclerosis In Mice. Circulation, 2008, 118, .	1.6	1