# Brenda R Kwak

List of Publications by Year
in descending order



| 103 | 8,012 | 53794 45 | 49909 87 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 103 | 103 | 103 | 9550 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Neutralization of S100A4 induces stabilization of atherosclerotic plaques: role of smooth muscle cells. Cardiovascular Research, 2022, 118, 141-155. | 3.8 | 17 |
| 2 | Primary cilia control endothelial permeability by regulating expression and location of junction proteins. Cardiovascular Research, 2022, 118, 1583-1596. | 3.8 | 12 |
| 3 | Intracranial aneurysm wall (in)stabilityâ€"current state of knowledge and clinical perspectives. Neurosurgical Review, 2022, 45, 1233-1253. | 2.4 | 9 |
| 4 | Detecting early myocardial ischemia in rat heart by MALDI imaging mass spectrometry. Scientific Reports, 2021, 11, 5135. | 3.3 | 6 |
| 5 | Lymphatic Connexins and Pannexins in Health and Disease. International Journal of Molecular Sciences, 2021, 22, 5734. | 4.1 | 6 |
| 6 | Browning of White Adipose Tissue as a Therapeutic Tool in the Fight against Atherosclerosis. Metabolites, 2021, 11, 319. | 2.9 | 18 |
| 7 | 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. | 6.1 | 9 |
| 8 | Effects of Low and High Aneurysmal Wall Shear Stress on Endothelial Cell Behavior: Differences and Similarities. Frontiers in Physiology, 2021, 12, 727338. | 2.8 | 10 |
| 9 | Effect of Aneurysm and Patient Characteristics on Intracranial Aneurysm Wall Thickness. Frontiers in Cardiovascular Medicine, 2021, 8, 775307. | 2.4 | 8 |
| 10 | Canonical and Non-Canonical Roles of Connexin43 in Cardioprotection. Biomolecules, 2020, 10, 1225. | 4.0 | 24 |
| 11 | Mitochondrial ion channels as targets for cardioprotection. Journal of Cellular and Molecular Medicine, 2020, 24, 7102-7114. | 3.6 | 48 |
| 12 | Non-canonical roles of connexins. Progress in Biophysics and Molecular Biology, 2020, 153, 35-41. | 2.9 | 14 |
| 13 | A Genetic Polymorphism in the Pannexin1 Gene Predisposes for The Development of Endothelial Dysfunction with Increasing BMI. Biomolecules, 2020, 10, 208. | 4.0 | 2 |
| 14 | Impaired SMAD1/5 Mechanotransduction and Cx37 (Connexin37) Expression Enable Pathological Vessel Enlargement and Shunting. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, e87-e104. | 2.4 | 33 |
| 15 | Artery-Associated Sympathetic Innervation Drives Rhythmic Vascular Inflammation of Arteries and Veins. Circulation, 2019, 140, 1100-1114. | 1.6 | 37 |
| 16 | Biological Functions of Connexin43 Beyond Intercellular Communication. Trends in Cell Biology, 2019, 29, 835-847. | 7.9 | 54 |
| 17 | ATP amplifies NADPH-dependent and -independent neutrophil extracellular trap formation. Scientific Reports, 2019, 9, 16556. | 3.3 | 41 |
| 18 | KLF4-Induced Connexin40 Expression Contributes to Arterial Endothelial Quiescence. Frontiers in Physiology, 2019, 10, 80. | 2.8 | 24 |

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|---|---|---|---|
| 19 | 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. | 3.5 | 28 |
| 20 | Disturbed flow induces a sustained, stochastic NF-Î°B activation which may support intracranial aneurysm growth in vivo. Scientific Reports, 2019, 9, 4738. | 3.3 | 25 |
| 21 | Selective inhibition of Panx1 channels decreases hemostasis and thrombosis in vivo. Thrombosis Research, 2019, 183, 56-62. | 1.7 | 12 |
| 22 | Sex-related differences in wall remodeling and intraluminal thrombus resolution in a rat saccular aneurysm model. Journal of Neurosurgery, 2019, , 1-14. | 1.6 | 8 |
| 23 | Endothelial connexins in vascular function. Vascular Biology (Bristol, England), 2019, 1, H117-H124. | 3.2 | 20 |
| 24 | RB459 and RB462 antibodies recognize mouse Pannexin1 protein by immunofluorescent staining. Antibody Reports, 2019, 2, e39. | 0.1 | 3 |
| 25 | 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. | 1.7 | 34 |
| 26 | An Overview of the Focus of the International Gap Junction Conference 2017 and Future Perspectives. International Journal of Molecular Sciences, 2018, 19, 2823. | 4.1 | 3 |
| 27 | Consensus guidelines for the use and interpretation of angiogenesis assays. Angiogenesis, 2018, 21, 425-532. | 7.2 | 429 |
| 28 | Role of hemodynamics in initiation/growth of intracranial aneurysms. European Journal of Clinical Investigation, 2018, 48, e12992. | 3.4 | 57 |
| 29 | Dendritic Cell Migration Toward CCL21 Gradient Requires Functional Cx43. Frontiers in Physiology, 2018, 9, 288. | 2.8 | 11 |
| 30 | 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. | 4.1 | 15 |
| 31 | Connexins and Pannexins in Vascular Function and Disease. International Journal of Molecular Sciences, 2018, 19, 1663. | 4.1 | 42 |
| 32 | Pannexin1 Single Nucleotide Polymorphism and Platelet Reactivity in a Cohort of Cardiovascular Patients. Cell Communication and Adhesion, 2017, 23, 11-15. | 1.0 | 10 |
| 33 | Exosomes secreted by cardiomyocytes subjected to ischaemia promote cardiac angiogenesis. Cardiovascular Research, 2017, 113, 1338-1350. | 3.8 | 193 |
| 34 | Pannexin1 links lymphatic function to lipid metabolism and atherosclerosis. Scientific Reports, 2017, 7, 13706. | 3.3 | 18 |
| 35 | 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. | 2.0 | 119 |
| 36 | Connexins in Cardiovascular and Neurovascular Health and Disease: Pharmacological Implications. Pharmacological Reviews, 2017, 69, 396-478. | 16.0 | 191 |

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|---|---|---|---|
| 37 | Human venous valve disease caused by mutations in <i>FOXC2</i> and <i>GJC2</i>. Journal of Experimental Medicine, 2017, 214, 2437-2452. | 8.5 | 29 |
| 38 | Pannexin- and Connexin-Mediated Intercellular Communication in Platelet Function. International Journal of Molecular Sciences, 2017, 18, 850. | 4.1 | 16 |
| 39 | Cx47 fine-tunes the handling of serum lipids but is dispensable for lymphatic vascular function. PLoS ONE, 2017, 12, e0181476. | 2.5 | 17 |
| 40 | Connexin40 controls endothelial activation by dampening NFÎºB activation. Oncotarget, 2017, 8, 50972-50986. | 1.8 | 12 |
| 41 | Atherosclerosis at arterial bifurcations: evidence for the role of haemodynamics and geometry. Thrombosis and Haemostasis, 2016, 115, 484-492. | 3.4 | 172 |
| 42 | Comparison between direct and reverse electroporation of cells inÂsitu: a simulation study. Physiological Reports, 2016, 4, e12673. | 1.7 | 7 |
| 43 | Connexins and their channels in inflammation. Critical Reviews in Biochemistry and Molecular Biology, 2016, 51, 413-439. | 5.2 | 93 |
| 44 | Central Role of P2Y <sub>6</sub> UDP Receptor in Arteriolar Myogenic Tone. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1598-1606. | 2.4 | 64 |
| 45 | Sphingosine-1-phosphate reduces ischaemiaâ€“reperfusion injury by phosphorylating the gap junction protein Connexin43. Cardiovascular Research, 2016, 109, 385-396. | 3.8 | 55 |
| 46 | 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. | 2.4 | 61 |
| 47 | Divergent JAM-C Expression Accelerates Monocyte-Derived Cell Exit from Atherosclerotic Plaques. PLoS ONE, 2016, 11, e0159679. | 2.5 | 19 |
| 48 | Adipokines at the crossroad between obesity and cardiovascular disease. Thrombosis and Haemostasis, 2015, 113, 553-566. | 3.4 | 105 |
| 49 | Endothelial Connexin37 and Connexin40 participate in basal but not agonist-induced NO release. Cell Communication and Signaling, 2015, 13, 34. | 6.5 | 30 |
| 50 | Functional role of a polymorphism in the Pannexin1 gene in collageninduced platelet aggregation. Thrombosis and Haemostasis, 2015, 114, 325-336. | 3.4 | 34 |
| 51 | Atherosclerosis severity is not affected by a deficiency in ILâ€33/ST2 signaling. Immunity, Inflammation and Disease, 2015, 3, 239-246. | 2.7 | 18 |
| 52 | Role of connexins and pannexins in cardiovascular physiology. Cellular and Molecular Life Sciences, 2015, 72, 2779-2792. | 5.4 | 37 |
| 53 | Lymphatic vessels: an emerging actor in atherosclerotic plaque development. European Journal of Clinical Investigation, 2015, 45, 100-108. | 3.4 | 47 |
| 54 | FOXC2 and fluid shear stress stabilize postnatal lymphatic vasculature. Journal of Clinical Investigation, 2015, 125, 3861-3877. | 8.2 | 186 |

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|---|---|---|---|
| 55 | Titration of the gap junction protein Connexin43 reduces atherogenesis. Thrombosis and Haemostasis, 2014, 112, 390-401. | 3.4 | 19 |
| 56 | Endothelial Cx40 limits myocardial ischaemia/reperfusion injury in mice. Cardiovascular Research, 2014, 102, 329-337. | 3.8 | 30 |
| 57 | Mutations in cardiovascular connexin genes. Biology of the Cell, 2014, 106, 269-293. | 2.0 | 29 |
| 58 | Biomechanical factors in atherosclerosis: mechanisms and clinical implications. European Heart Journal, 2014, 35, 3013-3020. | 2.2 | 359 |
| 59 | Connexins in lymphatic vessel physiology and disease. FEBS Letters, 2014, 588, 1271-1277. | 2.8 | 37 |
| 60 | Connexins in atherosclerosis. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 157-166. | 2.6 | 80 |
| 61 | Regulation of cardiovascular connexins by mechanical forces and junctions. Cardiovascular Research, 2013, 99, 304-314. | 3.8 | 38 |
| 62 | Stabilization of atherosclerotic plaques: an update. European Heart Journal, 2013, 34, 3251-3258. | 2.2 | 101 |
| 63 | The natural cardioprotective particle HDL modulates connexin43 gap junction channels. Cardiovascular Research, 2012, 93, 41-49. | 3.8 | 37 |
| 64 | Roles of Connexins in Atherosclerosis and Ischemia-Reperfusion Injury. Current Pharmaceutical Biotechnology, 2012, 13, 17-26. | 1.6 | 16 |
| 65 | Lack of association between connexin40 polymorphisms and coronary artery disease. Atherosclerosis, 2012, 222, 148-153. | 0.8 | 14 |
| 66 | Shear stress modulates the expression of the atheroprotective protein Cx37 in endothelial cells. Journal of Molecular and Cellular Cardiology, 2012, 53, 299-309. | 1.9 | 65 |
| 67 | Mechanotransduction, PROX1, and FOXC2 Cooperate to Control Connexin37 and Calcineurin during Lymphatic-Valve Formation. Developmental Cell, 2012, 22, 430-445. | 7.0 | 339 |
| 68 | Hypoxic pulmonary vasoconstriction requires connexin 40â€“mediated endothelial signal conduction. Journal of Clinical Investigation, 2012, 122, 4218-4230. | 8.2 | 134 |
| 69 | Risky communication in atherosclerosis and thrombus formation. Swiss Medical Weekly, 2012, 142, w13553. | 1.6 | 12 |
| 70 | Stabilisation of atherosclerotic plaques. Thrombosis and Haemostasis, 2011, 106, 1-19. | 3.4 | 139 |
| 71 | Mutations in connexin genes and disease. European Journal of Clinical Investigation, 2011, 41, 103-116. | 3.4 | 138 |
| 72 | Connexin Channel-Dependent Signaling Pathways in Inflammation. Journal of Vascular Research, 2011, 48, 91-103. | 1.4 | 64 |

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| 73 | Connexin 37 Limits Thrombus Propensity by Downregulating Platelet Reactivity. Circulation, 2011, 124, 930-939. | 1.6 | 46 |
| 74 | Gap Junction Protein Cx37 Interacts With Endothelial Nitric Oxide Synthase in Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 827-834. | 2.4 | 72 |
| 75 | Unexpected role for the human Cx37 C1019T polymorphism in tumour cell proliferation. Carcinogenesis, 2010, 31, 1922-1931. | 2.8 | 41 |
| 76 | Connexin43 modulates neutrophil recruitment to the lung. Journal of Cellular and Molecular Medicine, 2009, 13, 4560-4570. | 3.6 | 93 |
| 77 | Connexins participate in the initiation and progression of atherosclerosis. Seminars in Immunopathology, 2009, 31, 49-61. | 6.1 | 29 |
| 78 | Functional differences between human Cx37 polymorphic hemichannels. Journal of Molecular and Cellular Cardiology, 2009, 46, 499-507. | 1.9 | 42 |
| 79 | Connexins in Vascular Physiology and Pathology. Antioxidants and Redox Signaling, 2009, 11, 267-282. | 5.4 | 160 |
| 80 | Intercellular Communication in Atherosclerosis. Physiology, 2009, 24, 36-44. | 3.1 | 32 |
| 81 | 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. | 4.5 | 56 |
| 82 | Abstract 3716: Endothelial-specific Deletion Of The Gap Junction Protein Connexin43 Reduces Atherosclerosis In Mice. Circulation, 2008, 118, . | 1.6 | 1 |
| 83 | Do allelic variants of the connexin37 1019 gene polymorphism differentially predict for coronary artery disease and myocardial infarction?. Atherosclerosis, 2007, 191, 355-361. | 0.8 | 50 |
| 84 | Connexin37: a potential modifier gene of inflammatory disease. Journal of Molecular Medicine, 2007, 85, 787-795. | 3.9 | 36 |
| 85 | Connexin37 protects against atherosclerosis by regulating monocyte adhesion. Nature Medicine, 2006, 12, 950-954. | 30.7 | 259 |
| 86 | Reduced Connexin43 Expression Limits Neointima Formation After Balloon Distension Injury in Hypercholesterolemic Mice. Circulation, 2006, 113, 2835-2843. | 1.6 | 92 |
| 87 | 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 |
| 88 | Gap junctional communication in tissue inflammation and repair. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1711, 197-207. | 2.6 | 114 |
| 89 | Connexins in leukocytes: shuttling messages?. Cardiovascular Research, 2004, 62, 357-367. | 3.8 | 40 |
| 90 | Atherosclerosis: anti-inflammatory and immunomodulatory activities of statins. Autoimmunity Reviews, 2003, 2, 332-338. | 5.8 | 94 |

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|---|---|---|---|
| 91 | Reduced Connexin43 Expression Inhibits Atherosclerotic Lesion Formation in Low-Density Lipoprotein Receptorâ€"Deficient Mice. Circulation, 2003, 107, 1033-1039. | 1.6 | 155 |
| 92 | Dual Benefit of Reduced Cx43 on Atherosclerosis in LDL Receptor-Deficient Mice. Cell Communication and Adhesion, 2003, 10, 395-400. | 1.0 | 37 |
| 93 | Dual Benefit of Reduced Cx43 on Atherosclerosis in LDL Receptor-Deficient Mice. Cell Communication and Adhesion, 2003, 10, 395-400. | 1.0 | 18 |
| 94 | 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. | 4.5 | 52 |
| 95 | Altered Pattern of Vascular Connexin Expression in Atherosclerotic Plaques. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 225-230. | 2.4 | 199 |
| 96 | Statins Inhibit Leukocyte Recruitment. Arteriosclerosis, Thrombosis, and Vascular Biology, 2001, 21, 1256-1258. | 2.4 | 72 |
| 97 | Inhibition of Endothelial Wound Repair by Dominant Negative Connexin Inhibitors. Molecular Biology of the Cell, 2001, 12, 831-845. | 2.1 | 94 |
| 98 | Statins as a newly recognized type of immunomodulator. Nature Medicine, 2000, 6, 1399-1402. | 30.7 | 1,271 |
| 99 | Selective inhibition of gap junction channel activity by synthetic peptides. Journal of Physiology, 1999, 516, 679-685. | 2.9 | 67 |
| 100 | Characterization of Gap Junction Channels in Adult Rabbit Atrial and Ventricular Myocardium. Circulation Research, 1997, 80, 673-681. | 4.5 | 117 |
| 101 | Regulation of cardiac gap junction channel permeability and conductance by several phosphorylating conditions. Molecular and Cellular Biochemistry, 1996, 157, 93-9. | 3.1 | 145 |
| 102 | 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 |
| 103 | TPA Increases Conductance but Decreases Permeability in Neonatal Rat Cardiomyocyte Gap Junction Channels. Experimental Cell Research, 1995, 220, 456-463. | 2.6 | 143 |