

Richard M Breyer

List of Publications by Year in descending order

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91
papers

7,682
citations

50244

46
h-index

58549

82
g-index

94
all docs

94
docs citations

94
times ranked

7344
citing authors

#	ARTICLE	IF	CITATIONS
1	PROSTANOIDRECEPTORS: Subtypes and Signaling. Annual Review of Pharmacology and Toxicology, 2001, 41, 661-690.	4.2	927
2	Pharmacology and signaling of prostaglandin receptors: Multiple roles in inflammation and immune modulation. , 2004, 103, 147-166.		721
3	Salt-sensitive hypertension and reduced fertility in mice lacking the prostaglandin EP2 receptor. Nature Medicine, 1999, 5, 217-220.	15.2	374
4	Neuroprotective Function of the PGE2 EP2 Receptor in Cerebral Ischemia. Journal of Neuroscience, 2004, 24, 257-268.	1.7	351
5	Prostaglandin E receptors and the kidney. American Journal of Physiology - Renal Physiology, 2000, 279, F12-F23.	1.3	233
6	Deletion of the Prostaglandin E2 EP2 Receptor Reduces Oxidative Damage and Amyloid Burden in a Model of Alzheimer's Disease. Journal of Neuroscience, 2005, 25, 10180-10187.	1.7	221
7	G Protein-Coupled Prostanoid Receptors and the Kidney. Annual Review of Physiology, 2001, 63, 579-605.	5.6	218
8	Cancer-associated immunodeficiency and dendritic cell abnormalities mediated by the prostaglandin EP2 receptor. Journal of Clinical Investigation, 2003, 111, 727-735.	3.9	204
9	Opposite effects of cyclooxygenase-1 and -2 activity on the pressor response to angiotensin II. Journal of Clinical Investigation, 2002, 110, 61-69.	3.9	194
10	Paracrine orchestration of intestinal tumorigenesis by a mesenchymal niche. Nature, 2020, 580, 524-529.	13.7	183
11	Prostaglandin E ₂ constrains systemic inflammation through an innate lymphoid cell IL-22 axis. Science, 2016, 351, 1333-1338.	6.0	156
12	Knockout of the Murine Prostaglandin EP2 Receptor Impairs Osteoclastogenesis in Vitro*. Endocrinology, 2000, 141, 2054-2061.	1.4	150
13	Neuroprotection by the PGE2 EP2 receptor in permanent focal cerebral ischemia. Annals of Neurology, 2005, 57, 758-761.	2.8	136
14	Differential stem- and progenitor-cell trafficking by prostaglandin E2. Nature, 2013, 495, 365-369.	13.7	132
15	Colon Carcinoma Cell Growth Is Associated with Prostaglandin E2/EP4 Receptor-evoked ERK Activation. Journal of Biological Chemistry, 2004, 279, 29797-29804.	1.6	128
16	Neuronal oxidative damage from activated innate immunity is EP2 receptor-dependent. Journal of Neurochemistry, 2002, 83, 463-470.	2.1	127
17	The prostaglandin E ₂ EP2 receptor accelerates disease progression and inflammation in a model of amyotrophic lateral sclerosis. Annals of Neurology, 2008, 64, 304-314.	2.8	113
18	Opposite effects of cyclooxygenase-1 and -2 activity on the pressor response to angiotensin II. Journal of Clinical Investigation, 2002, 110, 61-69.	3.9	113

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19	Microglial EP2 is critical to neurotoxicity from activated cerebral innate immunity. <i>Glia</i> , 2005, 52, 70-77.	2.5	110
20	Macrophage EP4 Deficiency Increases Apoptosis and Suppresses Early Atherosclerosis. <i>Cell Metabolism</i> , 2008, 8, 492-501.	7.2	97
21	Antihypertensive effects of selective prostaglandin E2 receptor subtype 1 targeting. <i>Journal of Clinical Investigation</i> , 2007, 117, 2496-2505.	3.9	94
22	Generation of a conditional allele of the mouse prostaglandin EP4 receptor. <i>Genesis</i> , 2004, 40, 7-14.	0.8	90
23	Targeting Prostaglandin E2 Receptors as an Alternative Strategy to Block Cyclooxygenase-2-dependent Extracellular Matrix-induced Matrix Metalloproteinase-9 Expression by Macrophages. <i>Journal of Biological Chemistry</i> , 2006, 281, 3321-3328.	1.6	89
24	Therapeutic Targets in Prostaglandin E2 Signaling for Neurologic Disease. <i>Current Medicinal Chemistry</i> , 2008, 15, 1863-1869.	1.2	88
25	Prostaglandin receptors: their role in regulating renal function. <i>Current Opinion in Nephrology and Hypertension</i> , 2000, 9, 23-29.	1.0	87
26	Characterization of Murine Vasopressor and Vasodepressor Prostaglandin E ₂ Receptors. <i>Hypertension</i> , 2000, 35, 1129-1134.	1.3	82
27	Membrane-associated PGE synthase-1 (mPGES-1) is coexpressed with both COX-1 and COX-2 in the kidney. <i>Kidney International</i> , 2004, 65, 1205-1213.	2.6	82
28	Inflammatory prostaglandin E ₂ signaling in a mouse model of Alzheimer disease. <i>Annals of Neurology</i> , 2012, 72, 788-798.	2.8	81
29	EP ₂ receptor mediates bronchodilation by PGE ₂ in mice. <i>Journal of Applied Physiology</i> , 2000, 88, 2214-2218.	1.2	79
30	Regulation of renal function by prostaglandin E receptors. <i>Kidney International</i> , 1998, 54, S88-S94.	2.6	78
31	Dysregulated cytokine production in human cystic fibrosis bronchial epithelial cells. <i>Inflammation</i> , 2001, 25, 145-155.	1.7	76
32	In situ hybridization and localization of mRNA for the rabbit prostaglandin EP3 receptor. <i>Kidney International</i> , 1993, 44, 1372-1378.	2.6	71
33	Knockout of the Murine Prostaglandin EP2 Receptor Impairs Osteoclastogenesis in Vitro. <i>Endocrinology</i> , 2000, 141, 2054-2061.	1.4	71
34	EP3 receptor deficiency attenuates pulmonary hypertension through suppression of Rho/TGF- β ² signaling. <i>Journal of Clinical Investigation</i> , 2015, 125, 1228-1242.	3.9	68
35	Peroxisome proliferator-activated receptor- β activity is associated with renal microvasculature. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 281, F1036-F1046.	1.3	66
36	EP ₂ receptors mediate airway relaxation to substance P, ATP, and PGE ₂ . <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2001, 281, L469-L474.	1.3	66

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37	Misoprostol, an anti-ulcer agent and PGE2 receptor agonist, protects against cerebral ischemia. <i>Neuroscience Letters</i> , 2008, 438, 210-215.	1.0	66
38	Urogenital distribution of a mouse membrane-associated prostaglandin E2 synthase. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 281, F1173-F1177.	1.3	63
39	Niacin ameliorates ulcerative colitis via prostaglandin D ₂ -mediated D prostanoid receptor 1 activation. <i>EMBO Molecular Medicine</i> , 2017, 9, 571-588.	3.3	63
40	Increased dietary NaCl induces renal medullary PGE2 production and natriuresis via the EP2 receptor. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 295, F818-F825.	1.3	60
41	The PGE2 EP3 Receptor Regulates Diet-Induced Adiposity in Male Mice. <i>Endocrinology</i> , 2016, 157, 220-232.	1.4	59
42	PKA regulatory III β subunit is essential for PGD2-mediated resolution of inflammation. <i>Journal of Experimental Medicine</i> , 2016, 213, 2209-2226.	4.2	55
43	Altered hippocampal long-term synaptic plasticity in mice deficient in the PGE2 EP2 receptor. <i>Journal of Neurochemistry</i> , 2009, 108, 295-304.	2.1	54
44	The Second Extracellular Loop of the Prostaglandin EP3 Receptor Is an Essential Determinant of Ligand Selectivity. <i>Journal of Biological Chemistry</i> , 1997, 272, 13475-13478.	1.6	53
45	The cyclooxygenase-1/mPGES-1/endothelial prostaglandin EP4 receptor pathway constrains myocardial ischemia-reperfusion injury. <i>Nature Communications</i> , 2019, 10, 1888.	5.8	51
46	Contribution of prostaglandin EP ₂ receptors to renal microvascular reactivity in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, F415-F422.	1.3	50
47	Inactivation of the E-Prostanoid 3 Receptor Attenuates the Angiotensin II Pressor Response via Decreasing Arterial Contractility. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 3024-3032.	1.1	49
48	Substitution of Charged Amino Acid Residues in Transmembrane Regions 6 and 7 Affect Ligand Binding and Signal Transduction of the Prostaglandin EP3 Receptor. <i>Molecular Pharmacology</i> , 1997, 51, 61-68.	1.0	47
49	Loss of DP1 Aggravates Vascular Remodeling in Pulmonary Arterial Hypertension via mTORC1 Signaling. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 1263-1276.	2.5	47
50	Opposing effects of prostaglandin E 2 receptors EP3 and EP4 on mouse and human β -cell survival and proliferation. <i>Molecular Metabolism</i> , 2017, 6, 548-559.	3.0	45
51	Prostaglandin E ₂ promotes intestinal inflammation via inhibiting microbiota-dependent regulatory T cells. <i>Science Advances</i> , 2021, 7, .	4.7	44
52	Prostaglandin E2 stimulates adaptive IL-22 production and promotes allergic contact dermatitis. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 152-162.	1.5	43
53	A conserved threonine in the second extracellular loop of the human EP2 and EP4 receptors is required for ligand binding. <i>European Journal of Pharmacology</i> , 1998, 357, 73-82.	1.7	41
54	Prostaglandins that increase renin production in response to ACE inhibition are not derived from cyclooxygenase-1. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 283, R638-R646.	0.9	41

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55	Prostaglandin E2 receptor EP3 regulates both adipogenesis and lipolysis in mouse white adipose tissue. <i>Journal of Molecular Cell Biology</i> , 2016, 8, 518-529.	1.5	41
56	Structure&Function Analyses of Eicosanoid Receptors: Physiologic and Therapeutic Implications. <i>Annals of the New York Academy of Sciences</i> , 2000, 905, 221-231.	1.8	40
57	Microglial EP2 as a New Target to Increase Amyloid β Phagocytosis and Decrease Amyloid β -Induced Damage to Neurons. <i>Brain Pathology</i> , 2005, 15, 134-138.	2.1	37
58	Expression of the prostaglandin F receptor (FP) gene along the mouse genitourinary tract. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 284, F1164-F1170.	1.3	35
59	Characterization of a Rabbit Kidney Prostaglandin F $_{2\pm}$ Receptor Exhibiting Gi-restricted Signaling That Inhibits Water Absorption in the Collecting Duct. <i>Journal of Biological Chemistry</i> , 2005, 280, 35028-35037.	1.6	32
60	Protection of Hippocampal Neurogenesis from Toll-Like Receptor 4-Dependent Innate Immune Activation by Ablation of Prostaglandin E2 Receptor Subtype EP1 or EP2. <i>American Journal of Pathology</i> , 2009, 174, 2300-2309.	1.9	31
61	Regulation of pancreatic β -cell function and mass dynamics by prostaglandin signaling. <i>Journal of Cell Communication and Signaling</i> , 2017, 11, 105-116.	1.8	31
62	Functional and molecular aspects of prostaglandin E receptors in the cortical collecting duct. <i>Canadian Journal of Physiology and Pharmacology</i> , 1995, 73, 172-179.	0.7	30
63	Prostaglandin E2 modulation of blood pressure homeostasis: Studies in rodent models. <i>Prostaglandins and Other Lipid Mediators</i> , 2011, 96, 10-13.	1.0	26
64	Importance of the Extracellular Domain for Prostaglandin EP2 Receptor Function. <i>Molecular Pharmacology</i> , 1999, 56, 545-551.	1.0	25
65	Cloning and expression of the rabbit prostaglandin EP2 receptor. <i>BMC Pharmacology</i> , 2002, 2, 14.	0.4	22
66	DP1 Activation Reverses Age-Related Hypertension Via NEDD4L-Mediated T-Bet Degradation in T Cells. <i>Circulation</i> , 2020, 141, 655-666.	1.6	20
67	Genomic structure and genitourinary expression of mouse cytosolic prostaglandin E2 synthase gene. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2003, 1634, 15-23.	1.2	19
68	Regulation of Calcium Channels and Exocytosis in Mouse Adrenal Chromaffin Cells by Prostaglandin EP3 Receptors. <i>Molecular Pharmacology</i> , 2011, 79, 987-996.	1.0	19
69	Niacin Promotes Cardiac Healing after Myocardial Infarction through Activation of the Myeloid Prostaglandin D ₂ Receptor Subtype 1. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017, 360, 435-444.	1.3	18
70	Excessive EP4 Signaling in Smooth Muscle Cells Induces Abdominal Aortic Aneurysm by Amplifying Inflammation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1559-1573.	1.1	17
71	Myeloid Cell Prostaglandin E2 Receptor EP4 Modulates Cytokine Production but Not Atherogenesis in a Mouse Model of Type 1 Diabetes. <i>PLoS ONE</i> , 2016, 11, e0158316.	1.1	17
72	EP1 Disruption Attenuates End-Organ Damage in a Mouse Model of Hypertension. <i>Hypertension</i> , 2012, 60, 1184-1191.	1.3	15

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73	Knockout of the Prostaglandin E ₂ Receptor Subtype 3 Promotes Eccentric Cardiac Hypertrophy and Fibrosis in Mice. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2017, 22, 71-82.	1.0	15
74	Central EP3 (E Prostanoid 3) Receptors Mediate Salt-Sensitive Hypertension and Immune Activation. <i>Hypertension</i> , 2019, 74, 1507-1515.	1.3	15
75	Pharmacological blockade of the EP3 prostaglandin E2 receptor in the setting of type 2 diabetes enhances β^2 -cell proliferation and identity and relieves oxidative damage. <i>Molecular Metabolism</i> , 2021, 54, 101347.	3.0	14
76	Epithelial EP4 plays an essential role in maintaining homeostasis in colon. <i>Scientific Reports</i> , 2019, 9, 15244.	1.6	13
77	Prostanoid receptor with a novel pharmacological profile in human erythroleukemia cells. <i>Biochemical Pharmacology</i> , 1997, 54, 917-926.	2.0	11
78	The effect of the EP3 antagonist DG-041 on male mice with diet-induced obesity. <i>Prostaglandins and Other Lipid Mediators</i> , 2019, 144, 106353.	1.0	11
79	Rat prostaglandin EP3 receptor is highly promiscuous and is the sole prostanoid receptor family member that regulates INS β (832/3) cell glucose-stimulated insulin secretion. <i>Pharmacology Research and Perspectives</i> , 2021, 9, e00736.	1.1	11
80	Targeted gene disruption of the prostaglandin e2 ep2 receptor. <i>Advances in Experimental Medicine and Biology</i> , 2002, 507, 321-326.	0.8	11
81	Regulation of arterial reactivity by concurrent signaling through the E-prostanoid receptor 3 and angiotensin receptor 1. <i>Vascular Pharmacology</i> , 2016, 84, 47-54.	1.0	6
82	Development of an in vivo active, dual EP1 and EP3 selective antagonist based on a novel acyl sulfonamide bioisostere. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 37-41.	1.0	5
83	Intrarenal distribution of rabbit PKC zeta. <i>Kidney International</i> , 1997, 51, 1831-1837.	2.6	4
84	Evidence for the presence of a critical disulfide bond in the mouse EP3 ¹³ receptor. <i>Prostaglandins and Other Lipid Mediators</i> , 2011, 94, 53-58.	1.0	3
85	Eicosanoids and Renal Function. , 2013, , 487-509.		1
86	Targeted gene disruption of the prostaglandin E2 EP2 receptor. <i>Prostaglandins and Other Lipid Mediators</i> , 1999, 59, 86.	1.0	0
87	Eicosanoid Receptors. , 2004, , 6-9.		0
88	EP1 receptors exacerbate mortality in a mouse model of hypertension. <i>FASEB Journal</i> , 2011, 25, 1088.9.	0.2	0
89	Bidirectional regulation of adrenal catecholamine release by prostaglandin E2. <i>FASEB Journal</i> , 2012, 26, 879.6.	0.2	0
90	Prostaglandin E2 EP3 receptor modulation of insulin secretion in diabetes. <i>FASEB Journal</i> , 2013, 27, 1169.19.	0.2	0

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91	Prostanoids. , 2008, , 1004-1005.		0