

# Richard M Breyer

## List of Publications by Citations

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88  
papers

6,421  
citations

42  
h-index

80  
g-index

93  
ext. papers

7,039  
ext. citations

8.9  
avg, IF

5.42  
L-index

#	Paper	IF	Citations
88	Prostanoid receptors: subtypes and signaling. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2001</b> , 41, 661-90	17.9	847
87	Pharmacology and signaling of prostaglandin receptors: multiple roles in inflammation and immune modulation <b>2004</b> , 103, 147-66		627
86	Salt-sensitive hypertension and reduced fertility in mice lacking the prostaglandin EP2 receptor. <i>Nature Medicine</i> , <b>1999</b> , 5, 217-20	50.5	330
85	Neuroprotective function of the PGE2 EP2 receptor in cerebral ischemia. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 257-68	6.6	314
84	Prostaglandin E receptors and the kidney. <i>American Journal of Physiology - Renal Physiology</i> , <b>2000</b> , 279, F12-23	4.3	210
83	Deletion of the prostaglandin E2 EP2 receptor reduces oxidative damage and amyloid burden in a model of Alzheimer's disease. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 10180-7	6.6	202
82	G protein-coupled prostanoid receptors and the kidney. <i>Annual Review of Physiology</i> , <b>2001</b> , 63, 579-605	23.1	188
81	Cancer-associated immunodeficiency and dendritic cell abnormalities mediated by the prostaglandin EP2 receptor. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 111, 727-35	15.9	184
80	Opposite effects of cyclooxygenase-1 and -2 activity on the pressor response to angiotensin II. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 110, 61-69	15.9	179
79	Knockout of the murine prostaglandin EP2 receptor impairs osteoclastogenesis in vitro. <i>Endocrinology</i> , <b>2000</b> , 141, 2054-61	4.8	144
78	Colon carcinoma cell growth is associated with prostaglandin E2/EP4 receptor-evoked ERK activation. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 29797-804	5.4	121
77	Neuronal oxidative damage from activated innate immunity is EP2 receptor-dependent. <i>Journal of Neurochemistry</i> , <b>2002</b> , 83, 463-70	6	117
76	Neuroprotection by the PGE2 EP2 receptor in permanent focal cerebral ischemia. <i>Annals of Neurology</i> , <b>2005</b> , 57, 758-61	9.4	113
75	Prostaglandin E2 constrains systemic inflammation through an innate lymphoid cell-IL-22 axis. <i>Science</i> , <b>2016</b> , 351, 1333-8	33.3	111
74	Differential stem- and progenitor-cell trafficking by prostaglandin E2. <i>Nature</i> , <b>2013</b> , 495, 365-9	50.4	109
73	Microglial EP2 is critical to neurotoxicity from activated cerebral innate immunity. <i>Glia</i> , <b>2005</b> , 52, 70-7	9	101
72	The prostaglandin E2 EP2 receptor accelerates disease progression and inflammation in a model of amyotrophic lateral sclerosis. <i>Annals of Neurology</i> , <b>2008</b> , 64, 304-14	9.4	98

71	Paracrine orchestration of intestinal tumorigenesis by a mesenchymal niche. <i>Nature</i> , <b>2020</b> , 580, 524-529	50.4	87
70	Therapeutic targets in prostaglandin E2 signaling for neurologic disease. <i>Current Medicinal Chemistry</i> , <b>2008</b> , 15, 1863-9	4.3	81
69	Prostaglandin receptors: their role in regulating renal function. <i>Current Opinion in Nephrology and Hypertension</i> , <b>2000</b> , 9, 23-9	3.5	81
68	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> , <b>2006</b> , 281, 3321-8	5.4	79
67	Macrophage EP4 deficiency increases apoptosis and suppresses early atherosclerosis. <i>Cell Metabolism</i> , <b>2008</b> , 8, 492-501	24.6	77
66	Antihypertensive effects of selective prostaglandin E2 receptor subtype 1 targeting. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 2496-505	15.9	77
65	EP(2) receptor mediates bronchodilation by PGE(2) in mice. <i>Journal of Applied Physiology</i> , <b>2000</b> , 88, 2214-8	3.7	76
64	Opposite effects of cyclooxygenase-1 and -2 activity on the pressor response to angiotensin II. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 110, 61-9	15.9	74
63	Membrane-associated PGE synthase-1 (mPGES-1) is coexpressed with both COX-1 and COX-2 in the kidney. <i>Kidney International</i> , <b>2004</b> , 65, 1205-13	9.9	72
62	Characterization of murine vasopressor and vasodepressor prostaglandin E(2) receptors. <i>Hypertension</i> , <b>2000</b> , 35, 1129-34	8.5	72
61	Inflammatory prostaglandin E2 signaling in a mouse model of Alzheimer disease. <i>Annals of Neurology</i> , <b>2012</b> , 72, 788-98	9.4	71
60	Generation of a conditional allele of the mouse prostaglandin EP4 receptor. <i>Genesis</i> , <b>2004</b> , 40, 7-14	1.9	70
59	Regulation of renal function by prostaglandin E receptors. <i>Kidney International</i> , <b>1998</b> , 67, S88-94	9.9	67
58	Dysregulated cytokine production in human cystic fibrosis bronchial epithelial cells. <i>Inflammation</i> , <b>2001</b> , 25, 145-55	5.1	67
57	In situ hybridization and localization of mRNA for the rabbit prostaglandin EP3 receptor. <i>Kidney International</i> , <b>1993</b> , 44, 1372-8	9.9	67
56	EP2 receptors mediate airway relaxation to substance P, ATP, and PGE2. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2001</b> , 281, L469-74	5.8	61
55	Peroxisome proliferator-activated receptor-gamma activity is associated with renal microvasculature. <i>American Journal of Physiology - Renal Physiology</i> , <b>2001</b> , 281, F1036-46	4.3	60
54	Urogenital distribution of a mouse membrane-associated prostaglandin E(2) synthase. <i>American Journal of Physiology - Renal Physiology</i> , <b>2001</b> , 281, F1173-7	4.3	56

53	EP3 receptor deficiency attenuates pulmonary hypertension through suppression of Rho/TGF- $\beta$ signaling. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 1228-42	15.9	56
52	Misoprostol, an anti-ulcer agent and PGE2 receptor agonist, protects against cerebral ischemia. <i>Neuroscience Letters</i> , <b>2008</b> , 438, 210-5	3.3	54
51	Increased dietary NaCl induces renal medullary PGE2 production and natriuresis via the EP2 receptor. <i>American Journal of Physiology - Renal Physiology</i> , <b>2008</b> , 295, F818-25	4.3	51
50	The second extracellular loop of the prostaglandin EP3 receptor is an essential determinant of ligand selectivity. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 13475-8	5.4	48
49	Altered hippocampal long-term synaptic plasticity in mice deficient in the PGE2 EP2 receptor. <i>Journal of Neurochemistry</i> , <b>2009</b> , 108, 295-304	6	46
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> , <b>1997</b> , 51, 61-8	4.3	44
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> , <b>2012</b> , 32, 3024-32	9.4	42
46	The PGE2 EP3 Receptor Regulates Diet-Induced Adiposity in Male Mice. <i>Endocrinology</i> , <b>2016</b> , 157, 220-32	4.8	41
45	Contribution of prostaglandin EP(2) receptors to renal microvascular reactivity in mice. <i>American Journal of Physiology - Renal Physiology</i> , <b>2002</b> , 283, F415-22	4.3	41
44	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> , <b>1998</b> , 357, 73-82	5.3	37
43	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> , <b>2002</b> , 283, R638-46	3.2	37
42	Structure-function analyses of eicosanoid receptors. Physiologic and therapeutic implications. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 905, 221-31	6.5	35
41	PKA regulatory III $\beta$ subunit is essential for PGD2-mediated resolution of inflammation. <i>Journal of Experimental Medicine</i> , <b>2016</b> , 213, 2209-26	16.6	33
40	Oposing effects of prostaglandin E receptors EP3 and EP4 on mouse and human E $\beta$ cell survival and proliferation. <i>Molecular Metabolism</i> , <b>2017</b> , 6, 548-559	8.8	32
39	Niacin ameliorates ulcerative colitis via prostaglandin D-mediated D prostanoid receptor 1 activation. <i>EMBO Molecular Medicine</i> , <b>2017</b> , 9, 571-588	12	32
38	Expression of the prostaglandin F receptor (FP) gene along the mouse genitourinary tract. <i>American Journal of Physiology - Renal Physiology</i> , <b>2003</b> , 284, F1164-70	4.3	32
37	The cyclooxygenase-1/mPGES-1/endothelial prostaglandin EP4 receptor pathway constrains myocardial ischemia-reperfusion injury. <i>Nature Communications</i> , <b>2019</b> , 10, 1888	17.4	30
36	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> , <b>2009</b> , 174, 2300-9	5.8	30

35	Microglial EP2 as a new target to increase amyloid beta phagocytosis and decrease amyloid beta-induced damage to neurons. <i>Brain Pathology</i> , <b>2005</b> , 15, 134-8	6	30
34	Prostaglandin E stimulates adaptive IL-22 production and promotes allergic contact dermatitis. <i>Journal of Allergy and Clinical Immunology</i> , <b>2018</b> , 141, 152-162	11.5	27
33	Characterization of a rabbit kidney prostaglandin F <sub>2</sub> ( $\alpha$ ) receptor exhibiting G(i)-restricted signaling that inhibits water absorption in the collecting duct. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 35028-37	5.4	26
32	Prostaglandin E2 receptor EP3 regulates both adipogenesis and lipolysis in mouse white adipose tissue. <i>Journal of Molecular Cell Biology</i> , <b>2016</b> , 8, 518-529	6.3	25
31	Functional and molecular aspects of prostaglandin E receptors in the cortical collecting duct. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>1995</b> , 73, 172-9	2.4	24
30	Importance of the extracellular domain for prostaglandin EP(2) receptor function. <i>Molecular Pharmacology</i> , <b>1999</b> , 56, 545-51	4.3	23
29	Regulation of pancreatic $\beta$ cell function and mass dynamics by prostaglandin signaling. <i>Journal of Cell Communication and Signaling</i> , <b>2017</b> , 11, 105-116	5.2	22
28	Loss of DP1 Aggravates Vascular Remodeling in Pulmonary Arterial Hypertension via mTORC1 Signaling. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2020</b> , 201, 1263-1276	10.2	21
27	Cloning and expression of the rabbit prostaglandin EP2 receptor. <i>BMC Pharmacology</i> , <b>2002</b> , 2, 14		20
26	Prostaglandin E2 modulation of blood pressure homeostasis: studies in rodent models. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2011</b> , 96, 10-3	3.7	19
25	Niacin Promotes Cardiac Healing after Myocardial Infarction through Activation of the Myeloid Prostaglandin D Receptor Subtype 1. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2017</b> , 360, 435-444	4.7	17
24	Prostaglandin E promotes intestinal inflammation via inhibiting microbiota-dependent regulatory T cells. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	15
23	Knockout of the Prostaglandin E Receptor Subtype 3 Promotes Eccentric Cardiac Hypertrophy and Fibrosis in Mice. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , <b>2017</b> , 22, 71-82	2.6	14
22	Regulation of calcium channels and exocytosis in mouse adrenal chromaffin cells by prostaglandin EP3 receptors. <i>Molecular Pharmacology</i> , <b>2011</b> , 79, 987-96	4.3	14
21	Genomic structure and genitourinary expression of mouse cytosolic prostaglandin E(2) synthase gene. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2003</b> , 1634, 15-23	5	14
20	Central EP3 (E Prostanoid 3) Receptors Mediate Salt-Sensitive Hypertension and Immune Activation. <i>Hypertension</i> , <b>2019</b> , 74, 1507-1515	8.5	12
19	Targeted gene disruption of the prostaglandin E2 EP2 receptor. <i>Advances in Experimental Medicine and Biology</i> , <b>2002</b> , 507, 321-6	3.6	11
18	The effect of the EP3 antagonist DG-041 on male mice with diet-induced obesity. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2019</b> , 144, 106353	3.7	10

17	Myeloid Cell Prostaglandin E2 Receptor EP4 Modulates Cytokine Production but Not Atherogenesis in a Mouse Model of Type 1 Diabetes. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158316	3.7	10
16	DP1 Activation Reverses Age-Related Hypertension Via NEDD4L-Mediated T-Bet Degradation in T Cells. <i>Circulation</i> , <b>2020</b> , 141, 655-666	16.7	10
15	Epithelial EP4 plays an essential role in maintaining homeostasis in colon. <i>Scientific Reports</i> , <b>2019</b> , 9, 15244	4.9	9
14	EP1 disruption attenuates end-organ damage in a mouse model of hypertension. <i>Hypertension</i> , <b>2012</b> , 60, 1184-91	8.5	8
13	Prostanoid receptor with a novel pharmacological profile in human erythroleukemia cells. <i>Biochemical Pharmacology</i> , <b>1997</b> , 54, 917-26	6	8
12	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> , <b>2013</b> , 23, 37-41	2.9	4
11	Regulation of arterial reactivity by concurrent signaling through the E-prostanoid receptor 3 and angiotensin receptor 1. <i>Vascular Pharmacology</i> , <b>2016</b> , 84, 47-54	5.9	4
10	Excessive EP4 Signaling in Smooth Muscle Cells Induces Abdominal Aortic Aneurysm by Amplifying Inflammation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2020</b> , 40, 1559-1573	9.4	4
9	Rat prostaglandin EP3 receptor is highly promiscuous and is the sole prostanoid receptor family member that regulates INS-1 (832/3) cell glucose-stimulated insulin secretion. <i>Pharmacology Research and Perspectives</i> , <b>2021</b> , 9, e00736	3.1	3
8	Intrarenal distribution of rabbit PKC zeta. <i>Kidney International</i> , <b>1997</b> , 51, 1831-7	9.9	2
7	Pharmacological blockade of the EP3 prostaglandin E receptor in the setting of type 2 diabetes enhances $\beta$ cell proliferation and identity and relieves oxidative damage. <i>Molecular Metabolism</i> , <b>2021</b> , 54, 101347	8.8	2
6	Eicosanoids and Renal Function <b>2013</b> , 487-509		1
5	Evidence for the presence of a critical disulfide bond in the mouse EP3 receptor. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2011</b> , 94, 53-8	3.7	1
4	Eicosanoid Receptors <b>2004</b> , 6-9		
3	EP1 receptors exacerbate mortality in a mouse model of hypertension. <i>FASEB Journal</i> , <b>2011</b> , 25, 1088.9	0.9	
2	Bidirectional regulation of adrenal catecholamine release by prostaglandin E2. <i>FASEB Journal</i> , <b>2012</b> , 26, 879.6	0.9	
1	Prostaglandin E2 EP3 receptor modulation of insulin secretion in diabetes. <i>FASEB Journal</i> , <b>2013</b> , 27, 1169.19	0.9	