Richard J Evans

List of Publications by Year
in descending order

73 papers	4,506 citations	87888 38 h-index	102487 66 g-index
73 all docs	73 docs citations	73 times ranked	2625 citing authors

#	Article	IF	Citations
1	A new class of ligand-gated ion channel defined by P2X receptor for extracellular ATP. Nature, 1994, 371, 516-519.	27.8	1,005
2	A Role of the Fast ATP-gated P2X1 Cation Channel in Thrombosis of Small Arteries In Vivo. Journal of Experimental Medicine, 2003, 198, 661-667.	8.5	191
3	The Role of Positively Charged Amino Acids in ATP Recognition by Human P2X1 Receptors. Journal of Biological Chemistry, 2000, 275, 29361-29367.	3.4	170
4	Molecular properties of P2X receptors. Pflugers Archiv European Journal of Physiology, 2006, 452, 486-500.	2.8	145
5	Physiological role for P2X1 receptors in renal microvascular autoregulatory behavior. Journal of Clinical Investigation, 2003, 112, 1895-1905.	8.2	144
6	Conserved Cysteine Residues in the Extracellular Loop of the Human P2X1Receptor Form Disulfide Bonds and Are Involved in Receptor Trafficking to the Cell Surface. Molecular Pharmacology, 2002, 61, 303-311.	2.3	137
7	ADP is not an agonist at P2X1 receptors: evidence for separate receptors stimulated by ATP and ADP on human platelets. British Journal of Pharmacology, 2000, 131, 108-114.	5.4	130
8	P2X1 Receptor-Deficient Mice Establish the Native P2X Receptor and a P2Y6-Like Receptor in Arteries. Molecular Pharmacology, 2002, 62, 1438-1445.	2.3	112
9	Molecular properties of ATP-gated P2X receptor ion channels. Trends in Pharmacological Sciences, 2004, 25, 487-493.	8.7	110
10	Synaptic P2X receptors. Current Opinion in Neurobiology, 2001, 11, 378-386.	4.2	109
11	Disruption of Lipid Rafts Inhibits P2X1 Receptor-mediated Currents and Arterial Vasoconstriction. Journal of Biological Chemistry, 2005, 280, 30705-30711.	3.4	91
12	Functional Characterization of a P2X Receptor from Schistosoma mansoni. Journal of Biological Chemistry, 2004, 279, 41650-41657.	3.4	90
13	ATP Binding at Human P2X1 Receptors. Journal of Biological Chemistry, 2004, 279, 9043-9055.	3.4	88
14	P2X1 Ion Channels Promote Neutrophil Chemotaxis through Rho Kinase Activation. Journal of Immunology, 2009, 183, 2801-2809.	0.8	84
15	Inhibition of Platelet Functions and Thrombosis through Selective or Nonselective Inhibition of the Platelet P2 Receptors with Increasing Doses of NF449 [4,4â€²,4â€³,4â€³â€²-(Carbonylbis(imino-5,1,3-benzenetriylbis-(carbonylimino)))tetrakis-benzene-1,3-disulfonic Acid Octasodium Salt]. Journal of Pharmacology and Experimental Therapeutics, 2005, 314, 232-243.	2.5	79
16	A study of P2X1 receptor function in murine megakaryocytes and human platelets reveals synergy with P2Y receptors. British Journal of Pharmacology, 2002, 135, 363-372.	5.4	73
17	Emerging roles for P2X1receptors in platelet activation. Platelets, 2004, 15, 131-144.	2.3	71
18	Functional Regulation of P2X6 Receptors by N-Linked Glycosylation: Identification of a Novel Î±Î²-Methylene ATP-Sensitive Phenotype. Molecular Pharmacology, 2004, 65, 979-985.	2.3	69

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19	G-protein-coupled receptor regulation of P2X1 receptors does not involve direct channel phosphorylation. Biochemical Journal, 2004, 382, 101-110.	3.7	66
20	Agonist-stimulated internalisation of the ligand-gated ion channel P2X1 in rat vas deferens. FEBS Letters, 2001, 489, 154-158.	2.8	62
21	Interplay between P2Y1, P2Y12, and P2X1 receptors in the activation of megakaryocyte cation influx currents by ADP: evidence that the primary megakaryocyte represents a fully functional model of platelet P2 receptor signaling. Blood, 2005, 106, 1644-1651.	1.4	62
22	P2X1 expressed on polymorphonuclear neutrophils and platelets is required for thrombosis in mice. Blood, 2014, 124, 2575-2585.	1.4	58
23	Unique residues in the ATP gated human P2X7 receptor define a novel allosteric binding pocket for the selective antagonist AZ10606120. Scientific Reports, 2017, 7, 725.	3.3	58
24	Cysteine Substitution Mutants Give Structural Insight and Identify ATP Binding and Activation Sites at P2X Receptors. Journal of Neuroscience, 2007, 27, 4072-4082.	3.6	55
25	Direct Voltage Control of Signaling via P2Y1 and Other GÎ±q-coupled Receptors. Journal of Biological Chemistry, 2005, 280, 1490-1498.	3.4	52
26	Structural interpretation of P2X receptor mutagenesis studies on drug action. British Journal of Pharmacology, 2010, 161, 961-971.	5.4	52
27	Cysteine Substitution Mutagenesis and the Effects of Methanethiosulfonate Reagents at P2X2 and P2X4 Receptors Support a Core Common Mode of ATP Action at P2X Receptors. Journal of Biological Chemistry, 2008, 283, 20126-20136.	3.4	51
28	The P2X1 receptor and platelet function. Purinergic Signalling, 2011, 7, 341-356.	2.2	51
29	Agonist binding evokes extensive conformational changes in the extracellular domain of the ATP-gated human P2X1 receptor ion channel. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4663-4667.	7.1	51
30	The P2X1 Receptor Is Required for Neutrophil Extravasation during Lipopolysaccharide-Induced Lethal Endotoxemia in Mice. Journal of Immunology, 2015, 194, 739-749.	0.8	49
31	Heterogeneity of P2X Receptors in Sympathetic Neurons: Contribution of Neuronal P2X1 Receptors Revealed Using Knockout Mice. Molecular Pharmacology, 2004, 65, 139-148.	2.3	46
32	Regulation of Human Recombinant P2X3 Receptors by Ecto-Protein Kinase C. Journal of Neuroscience, 2005, 25, 7734-7742.	3.6	46
33	Lipid Raft Association and Cholesterol Sensitivity of P2X1-4 Receptors for ATP. Journal of Biological Chemistry, 2010, 285, 32770-32777.	3.4	46
34	Contribution of conserved polar glutamine, asparagine and threonine residues and glycosylation to agonist action at human P2X1 receptors for ATP. Journal of Neurochemistry, 2006, 96, 843-852.	3.9	44
35	ATP-Gated P2X Receptor Channels: Molecular Insights into Functional Roles. Annual Review of Physiology, 2019, 81, 43-62.	13.1	44
36	Evidence for P2Y1 , P2Y2 , P2Y6 and atypical UTP-sensitive receptors coupled to rises in intracellular calcium in mouse cultured superior cervical ganglion neurons and glia. British Journal of Pharmacology, 2004, 143, 525-532.	5.4	40

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37	P2X receptor subtype-specific modulation of excitatory and inhibitory synaptic inputs in the rat brainstem. Journal of Physiology, 2004, 558, 745-757.	2.9	40
38	P2X1 Receptor Subunit Contribution to Gating Revealed by a Dominant Negative PKC Mutant. Biochemical and Biophysical Research Communications, 2002, 291, 611-616.	2.1	38
39	Differential sensitivity of human platelet P2X1 and P2Y1 receptors to disruption of lipid rafts. Biochemical and Biophysical Research Communications, 2006, 343, 415-419.	2.1	38
40	Cysteine Scanning Mutagenesis (Residues Glu52â€“Gly96) of the Human P2X1 Receptor for ATP. Journal of Biological Chemistry, 2011, 286, 29207-29217.	3.4	37
41	Lack of evidence for functional ADP-activated human P2X1 receptors supports a role for ATP during hemostasis and thrombosis. Blood, 2003, 102, 3646-3651.	1.4	34
42	The Intracellular Amino Terminus Plays a Dominant Role in Desensitization of ATP-gated P2X Receptor Ion Channels. Journal of Biological Chemistry, 2011, 286, 44691-44701.	3.4	31
43	Contribution of the region Glu181 to Val200 of the extracellular loop of the human P2X1 receptor to agonist binding and gating revealed using cysteine scanning mutagenesis¹. Journal of Neurochemistry, 2009, 109, 1042-1052.	3.9	30
44	P2X1 receptor mobility and trafficking; regulation by receptor insertion and activation. Journal of Neurochemistry, 2010, 113, 1177-1187.	3.9	30
45	Heat Shock Protein 90 Inhibitors Reduce Trafficking of ATP-gated P2X1 Receptors and Human Platelet Responsiveness*. Journal of Biological Chemistry, 2012, 287, 32747-32754.	3.4	27
46	Contribution of the Juxtatransmembrane Intracellular Regions to the Time Course and Permeation of ATP-gated P2X7 Receptor Ion Channels. Journal of Biological Chemistry, 2015, 290, 14556-14566.	3.4	26
47	Identification of Human P2X1 Receptor-interacting Proteins Reveals a Role of the Cytoskeleton in Receptor Regulation. Journal of Biological Chemistry, 2011, 286, 30591-30599.	3.4	25
48	Mapping the Allosteric Action of Antagonists A740003 and A438079 Reveals a Role for the Left Flipper in Ligand Sensitivity at P2X7 Receptors. Molecular Pharmacology, 2018, 93, 553-562.	2.3	25
49	Mapping the Site of Action of Human P2X7 Receptor Antagonists AZ11645373, Brilliant Blue G, KN-62, Calmidazolium, and ZINC58368839 to the Intersubunit Allosteric Pocket. Molecular Pharmacology, 2019, 96, 355-363.	2.3	25
50	Conserved Negatively Charged Residues Are Not Required for ATP Action at P2X1 Receptors. Biochemical and Biophysical Research Communications, 2001, 289, 700-704.	2.1	21
51	Contribution of conserved glycine residues to ATP action at human P2X1 receptors: mutagenesis indicates that the glycine at position 250 is important for channel function. Journal of Neurochemistry, 2005, 95, 1746-1754.	3.9	21
52	Ca²⁺Influx through P2X1 Receptors Amplifies P2Y1 Receptor-Evoked Ca²⁺Signaling and ADP-Evoked Platelet Aggregation. Molecular Pharmacology, 2014, 86, 243-251.	2.3	20
53	Mapping the binding site of the P2X receptor antagonist PPADS reveals the importance of orthosteric site charge and the cysteine-rich head region. Journal of Biological Chemistry, 2018, 293, 12820-12831.	3.4	19
54	Regions of the amino terminus of the P2X₁ receptor required for modification by phorbol ester and mGluR1Î± receptors. Journal of Neurochemistry, 2009, 108, 331-340.	3.9	18

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55	Characterisation of ATP analogues to cross-link and label P2X receptors. Neuropharmacology, 2009, 56, 230-236.	4.1	18
56	Extracellular Ca²⁺ modulates ADPâ€evoked aggregation through altered agonist degradation: implications for conditions used to study P2Y receptor activation. British Journal of Haematology, 2011, 153, 83-91.	2.5	18
57	An evaluation of antibody detection of the P2X1 receptor subunit in the CNS of wild type and P2X1-knockout mice. Neuroscience Letters, 2006, 397, 120-125.	2.1	14
58	P2X Receptor Chimeras Highlight Roles of the Amino Terminus to Partial Agonist Efficacy, the Carboxyl Terminus to Recovery from Desensitization, and Independent Regulation of Channel Transitions. Journal of Biological Chemistry, 2013, 288, 21412-21421.	3.4	14
59	Kinetics of Conformational Changes Revealed by Voltage-Clamp Fluorometry Give Insight to Desensitization at ATP-Gated Human P2X1 Receptors. Molecular Pharmacology, 2014, 86, 707-715.	2.3	14
60	Mechanistic insights from resolving ligand-dependent kinetics of conformational changes at ATP-gated P2X1R ion channels. Scientific Reports, 2016, 6, 32918.	3.3	14
61	Mass spectrometry analysis of human P2X1 receptors; insight into phosphorylation, modelling and conformational changes. Journal of Neurochemistry, 2012, 123, 725-735.	3.9	12
62	Calcium Signalling through Ligand-Gated Ion Channels such as P2X1 Receptors in the Platelet and other Non-Excitable Cells. Advances in Experimental Medicine and Biology, 2016, 898, 305-329.	1.6	10
63	P2X1 ion channel deficiency causes massive bleeding in inflamed intestine and increases thrombosis. Journal of Thrombosis and Haemostasis, 2020, 18, 44-56.	3.8	9
64	Mutagenesis studies of conserved proline residues of human P2X1 receptors for ATP indicate that proline 272 contributes to channel function. Journal of Neurochemistry, 2005, 92, 1256-1264.	3.9	8
65	Contribution of the intracellular C terminal domain to regulation of human P2X1 receptors for ATP by phorbol ester and Gq coupled mGlu1Î± receptors. European Journal of Pharmacology, 2011, 654, 155-159.	3.5	7
66	Use of Chimeras, Point Mutants, and Molecular Modeling to Map the Antagonist-binding Site of 4,4â€²,4â€³,4â€´-(Carbonylbis-(imino-5,1,3-benzenetriylbis(carbonylimino)))tetrakisbenzene-1,3-disulfonic Acid (NF449) at P2X1 Receptors for ATP. Journal of Biological Chemistry, 2015, 290, 1559-1569.	3.4	7
67	Organization of ATP-gated P2X1 receptor intracellular termini in apo and desensitized states. Journal of General Physiology, 2019, 151, 146-155.	1.9	6
68	Cooperation between NMDA-Type Glutamate and P2 Receptors for Neuroprotection during Stroke: Combining Astrocyte and Neuronal Protection. Neuroglia (Basel, Switzerland), 2018, 1, 30-47.	0.9	5
69	Development of a P2X1-eYFP receptor knock-in mouse to track receptors in real time. Purinergic Signalling, 2019, 15, 397-402.	2.2	5
70	Contribution of P2X1 receptor intracellular basic residues to channel properties. Biochemical and Biophysical Research Communications, 2006, 350, 244-248.	2.1	3
71	Permeability and single-channel properties of mesenteric, basilar, and septal (coronary) artery smooth-muscle P2X receptors. Drug Development Research, 2001, 52, 164-169.	2.9	2
72	Contribution of P2Y1 receptors to ADP signalling in mouse spinal cord cultures. Neuroscience Letters, 2008, 435, 190-193.	2.1	2

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73	Identification of a distinct desensitisation gate in the ATP-gated P2X2 receptor. Biochemical and Biophysical Research Communications, 2020, 523, 190-195.	2.1	2