

Rennolds S Ostrom

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75 papers	3,705 citations	29 h-index	60 g-index
91 ext. papers	4,272 ext. citations	5.1 avg, IF	5.31 L-index

#	Paper	IF	Citations
75	Melatonin membrane receptors in peripheral tissues: distribution and functions. <i>Molecular and Cellular Endocrinology</i> , 2012 , 351, 152-66	4.4	427
74	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Enzymes. <i>British Journal of Pharmacology</i> , 2019 , 176 Suppl 1, S297-S396	8.6	347
73	The evolving role of lipid rafts and caveolae in G protein-coupled receptor signaling: implications for molecular pharmacology. <i>British Journal of Pharmacology</i> , 2004 , 143, 235-45	8.6	304
72	Receptor number and caveolar co-localization determine receptor coupling efficiency to adenylyl cyclase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 42063-9	5.4	203
71	RGS-PX1, a GAP for GalphaS and sorting nexin in vesicular trafficking. <i>Science</i> , 2001 , 294, 1939-42	33.3	202
70	Forskolin as a tool for examining adenylyl cyclase expression, regulation, and G protein signaling. <i>Cellular and Molecular Neurobiology</i> , 2003 , 23, 305-14	4.6	197
69	Cellular release of and response to ATP as key determinants of the set-point of signal transduction pathways. <i>Journal of Biological Chemistry</i> , 2000 , 275, 11735-9	5.4	152
68	Localization of adenylyl cyclase isoforms and G protein-coupled receptors in vascular smooth muscle cells: expression in caveolin-rich and noncaveolin domains. <i>Molecular Pharmacology</i> , 2002 , 62, 983-92	4.3	122
67	Caveolae and lipid rafts: G protein-coupled receptor signaling microdomains in cardiac myocytes. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1047, 166-72	6.5	106
66	cAMP inhibits transforming growth factor-beta-stimulated collagen synthesis via inhibition of extracellular signal-regulated kinase 1/2 and Smad signaling in cardiac fibroblasts. <i>Molecular Pharmacology</i> , 2006 , 70, 1992-2003	4.3	101
65	International Union of Basic and Clinical Pharmacology. CI. Structures and Small Molecule Modulators of Mammalian Adenylyl Cyclases. <i>Pharmacological Reviews</i> , 2017 , 69, 93-139	22.5	100
64	cAMP-elevating agents and adenylyl cyclase overexpression promote an antifibrotic phenotype in pulmonary fibroblasts. <i>American Journal of Physiology - Cell Physiology</i> , 2004 , 286, C1089-99	5.4	94
63	Hypertonic stress increases T cell interleukin-2 expression through a mechanism that involves ATP release, P2 receptor, and p38 MAPK activation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 4590-6	5.4	91
62	Subtypes of the muscarinic receptor in smooth muscle. <i>Life Sciences</i> , 1997 , 61, 1729-40	6.8	84
61	Non-genomic Effects of Glucocorticoids: An Updated View. <i>Trends in Pharmacological Sciences</i> , 2019 , 40, 38-49	13.2	83
60	Angiotensin II enhances adenylyl cyclase signaling via Ca ²⁺ /calmodulin. Gq-Gs cross-talk regulates collagen production in cardiac fibroblasts. <i>Journal of Biological Chemistry</i> , 2003 , 278, 24461-8	5.4	82
59	New determinants of receptor-effector coupling: trafficking and compartmentation in membrane microdomains. <i>Molecular Pharmacology</i> , 2002 , 61, 473-6	4.3	80

58	Nitric oxide inhibition of adenylyl cyclase type 6 activity is dependent upon lipid rafts and caveolin signaling complexes. <i>Journal of Biological Chemistry</i> , 2004 , 279, 19846-53	5.4	79
57	P2Y receptors of MDCK cells: epithelial cell regulation by extracellular nucleotides. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2001 , 28, 351-4	3	55
56	cAMP Signaling Compartmentation: Adenylyl Cyclases as Anchors of Dynamic Signaling Complexes. <i>Molecular Pharmacology</i> , 2018 , 93, 270-276	4.3	54
55	CD82 endocytosis and cholesterol-dependent reorganization of tetraspanin webs and lipid rafts. <i>FASEB Journal</i> , 2009 , 23, 3273-88	0.9	47
54	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Enzymes. <i>British Journal of Pharmacology</i> , 2021 , 178 Suppl 1, S313-S411	8.6	40
53	Choreographing the adenylyl cyclase signalosome: sorting out the partners and the steps. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2012 , 385, 5-12	3.4	37
52	Human bronchial smooth muscle cells express adenylyl cyclase isoforms 2, 4, and 6 in distinct membrane microdomains. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011 , 337, 209-17	4.7	35
51	Key role for constitutive cyclooxygenase-2 of MDCK cells in basal signaling and response to released ATP. <i>American Journal of Physiology - Cell Physiology</i> , 2001 , 281, C524-31	5.4	35
50	Inhibition of phospholipase A2-mediated arachidonic acid release by cyclic AMP defines a negative feedback loop for P2Y receptor activation in Madin-Darby canine kidney D1 cells. <i>Journal of Biological Chemistry</i> , 1999 , 274, 10035-8	5.4	34
49	Detergent and detergent-free methods to define lipid rafts and caveolae. <i>Methods in Molecular Biology</i> , 2007 , 400, 459-68	1.4	34
48	A CNS-permeable Hsp90 inhibitor rescues synaptic dysfunction and memory loss in APP-overexpressing Alzheimer's mouse model via an HSF1-mediated mechanism. <i>Molecular Psychiatry</i> , 2017 , 22, 990-1001	15.1	33
47	Fibrotic lung fibroblasts show blunted inhibition by cAMP due to deficient cAMP response element-binding protein phosphorylation. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005 , 315, 678-87	4.7	32
46	Biochemical methods for detection and measurement of cyclic AMP and adenylyl cyclase activity. <i>Methods in Molecular Biology</i> , 2000 , 126, 363-74	1.4	29
45	PDE8 Is Expressed in Human Airway Smooth Muscle and Selectively Regulates cAMP Signaling by β -Adrenergic Receptors and Adenylyl Cyclase 6. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018 , 58, 530-541	5.7	28
44	Development of a high-throughput screening paradigm for the discovery of small-molecule modulators of adenylyl cyclase: identification of an adenylyl cyclase 2 inhibitor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013 , 347, 276-87	4.7	24
43	The C1 and C2 domains target human type 6 adenylyl cyclase to lipid rafts and caveolae. <i>Cellular Signalling</i> , 2009 , 21, 301-8	4.9	23
42	Adenylyl cyclase type 6 overexpression selectively enhances beta-adrenergic and prostacyclin receptor-mediated inhibition of cardiac fibroblast function because of colocalization in lipid rafts. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2008 , 377, 359-69	3.4	21
41	Methods for the study of signaling molecules in membrane lipid rafts and caveolae. <i>Methods in Molecular Biology</i> , 2006 , 332, 181-91	1.4	21

40	Compartmentalized cAMP responses to prostaglandin EP receptor activation in human airway smooth muscle cells. <i>British Journal of Pharmacology</i> , 2017 , 174, 2784-2796	8.6	19
39	Adenylyl cyclase 6 activation negatively regulates TLR4 signaling through lipid raft-mediated endocytosis. <i>Journal of Immunology</i> , 2013 , 191, 6093-100	5.3	19
38	Sensory primary cilium is a responsive cAMP microdomain in renal epithelia. <i>Scientific Reports</i> , 2019 , 9, 6523	4.9	17
37	Adenylyl cyclase 2 selectively couples to E prostanoid type 2 receptors, whereas adenylyl cyclase 3 is not receptor-regulated in airway smooth muscle. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012 , 342, 586-95	4.7	16
36	cAMP attenuates TGF- β profibrotic responses in osteoarthritic synoviocytes: involvement of hyaluronan and PRG4. <i>American Journal of Physiology - Cell Physiology</i> , 2018 , 315, C432-C443	5.4	15
35	Transforming Growth Factor- β Decreases β -Agonist-induced Relaxation in Human Airway Smooth Muscle. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019 , 61, 209-218	5.7	14
34	Impaired M3 and enhanced M2 muscarinic receptor contractile function in a streptozotocin model of mouse diabetic urinary bladder. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2010 , 381, 441-54	3.4	13
33	Budesonide enhances agonist-induced bronchodilation in human small airways by increasing cAMP production in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 318, L345-L355	5.8	13
32	Fibroblast-specific expression of AC6 enhances beta-adrenergic and prostacyclin signaling and blunts bleomycin-induced pulmonary fibrosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010 , 298, L819-29	5.8	12
31	Non-raft adenylyl cyclase 2 defines a cAMP signaling compartment that selectively regulates IL-6 expression in airway smooth muscle cells: differential regulation of gene expression by AC isoforms. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2014 , 387, 329-39	3.4	11
30	Glucocorticoids rapidly activate cAMP production via G to initiate non-genomic signaling that contributes to one-third of their canonical genomic effects. <i>FASEB Journal</i> , 2020 , 34, 2882-2895	0.9	11
29	p53 Expression in Lung Fibroblasts Is Linked to Mitigation of Fibrotic Lung Remodeling. <i>American Journal of Pathology</i> , 2018 , 188, 2207-2222	5.8	11
28	Suppression of CHRN endocytosis by carbonic anhydrase CAR3 in the pathogenesis of myasthenia gravis. <i>Autophagy</i> , 2017 , 13, 1981-1994	10.2	9
27	The M2-muscarinic receptor inhibits the development of streptozotocin-induced neuropathy in mouse urinary bladder. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 335, 239-48	4.7	9
26	SARS-CoV-2 early infection signature identified potential key infection mechanisms and drug targets. <i>BMC Genomics</i> , 2021 , 22, 125	4.5	9
25	Phosphodiesterase isoforms and cAMP compartments in the development of new therapies for obstructive pulmonary diseases. <i>Current Opinion in Pharmacology</i> , 2020 , 51, 34-42	5.1	8
24	The guinea pig ileum lacks the direct, high-potency, M(2)-muscarinic, contractile mechanism characteristic of the mouse ileum. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2009 , 380, 327-35	3.4	7
23	Effect of Adenylyl Cyclase Type 6 on Localized Production of cAMP by β -2 Adrenoceptors in Human Airway Smooth-Muscle Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019 , 370, 104-110	4.7	5

22	Agonist-specific desensitization of PGE-stimulated cAMP signaling due to upregulated phosphodiesterase expression in human lung fibroblasts. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2020 , 393, 843-856	3.4	4
21	Anti-inflammatory effects of α -nicotinic ACh receptors are exerted through interactions with adenylyl cyclase-6. <i>British Journal of Pharmacology</i> , 2021 , 178, 2324-2338	8.6	4
20	An orphan GPCR finds a home in the heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 295, H479-81	5.2	1
19	Hsp90 inhibitor induces nuclear translocation of HSF1 predominantly in hippocampal CA1 region. <i>Molecular Psychiatry</i> , 2017 , 22, 935	15.1	
18	β -Adrenergic Receptors of MDCK-D1 Cells Utilize Multiple Signalling Components. <i>Advances in Behavioral Biology</i> , 2002 , 257-260		
17	TGF β Signaling via ERK1/2 and Smad is Inhibited by cAMP-Elevating Agents in Rat Cardiac Fibroblasts. <i>FASEB Journal</i> , 2006 , 20, A1465	0.9	
16	C1 and C2 Domains of Human Adenylyl Cyclase 6 are Targeted to Lipid Rafts and Caveolae. <i>FASEB Journal</i> , 2006 , 20, A1117	0.9	
15	Palmitoylation at Cys 1145 in the Carboxyl Terminus of Human Type 6 Adenylyl Cyclase is Not Required for Targeting to Lipid Rafts and Caveolae. <i>FASEB Journal</i> , 2006 , 20, A542	0.9	
14	Role of the M2 muscarinic receptor in contraction of mouse urinary bladder. <i>FASEB Journal</i> , 2007 , 21, A1162	0.9	
13	Expression and localization of adenylyl cyclases and G protein-coupled receptors in guinea pig ileum caveolae and lipid rafts. <i>FASEB Journal</i> , 2007 , 21, A792	0.9	
12	The proximal segments of the cytosolic C1 domain of adenylyl cyclase 6 localize to plasma membrane lipid rafts and caveolae. <i>FASEB Journal</i> , 2007 , 21, A795	0.9	
11	Proteomic analysis detects cytoskeletal-related proteins that interact with the intracellular C1 domain of adenylyl cyclase 6. <i>FASEB Journal</i> , 2008 , 22, 728.1	0.9	
10	Expression and localization of adenylyl cyclase isoforms in primary mouse airway smooth muscle cells. <i>FASEB Journal</i> , 2008 , 22, 916.4	0.9	
9	Fibroblast-specific expression of adenylyl cyclase 6 reduces myofibroblast differentiation and protects against bleomycin-induced pulmonary fibrosis. <i>FASEB Journal</i> , 2008 , 22, 928.5	0.9	
8	Inhaled Corticosteroids Stimulate cAMP Production and Enhance β AR Signaling In a Non-Genomic Fashion In Human Airway Smooth Muscle Cells. <i>FASEB Journal</i> , 2018 , 32, 686.15	0.9	
7	PDE8 Activity Regulates cAMP Signaling by β AR But Not Prostanoid EP2 Nor EP4 Receptors In Human Airway Smooth Muscle. <i>FASEB Journal</i> , 2018 , 32, 686.14	0.9	
6	Desensitization of PGE2-stimulated cAMP Signaling Due to Upregulated Phosphodiesterase Activity in Human Lung Fibroblasts. <i>FASEB Journal</i> , 2018 , 32, 686.17	0.9	
5	Glucocorticoids rapidly stimulate cAMP production in a G β -dependent manner. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	

4	Non-genomic glucocorticoid signaling via G β contributes to one-third of their canonical genomic effects. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9
3	Membrane Microdomains and cAMP Compartmentation in Cardiac Myocytes. <i>Cardiac and Vascular Biology</i> , 2017 , 17-35	0.2
2	Localization and coupling of adenylyl cyclase isoforms 2, 3 and 6 with G protein-coupled receptors in mouse bronchial smooth muscle cells. <i>FASEB Journal</i> , 2009 , 23, 582.3	0.9
1	Adenylyl cyclase 6 defines a distinct cAMP compartment that increases somatostatin expression by airway smooth muscle cells. <i>FASEB Journal</i> , 2012 , 26, 666.5	0.9