

Paul A Insel

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h-index

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318
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21,379
ext. citations

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L-index

#	Paper	IF	Citations
287	ATP release guides neutrophil chemotaxis via P2Y2 and A3 receptors. <i>Science</i> , 2006 , 314, 1792-5	10	639
286	Protein kinase C isozymes and the regulation of diverse cell responses. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000 , 279, L429-38	1.4	542
285	A single amino acid mutation contributes to adaptive beach mouse color pattern. <i>Science</i> , 2006 , 313, 101-4	10	525
284	Regulation and inhibition of phospholipase A2. <i>Annual Review of Pharmacology and Toxicology</i> , 1999 , 39, 175-89	3.9	518
283	G Protein-Coupled Receptors as Targets for Approved Drugs: How Many Targets and How Many Drugs?. <i>Molecular Pharmacology</i> , 2018 , 93, 251-258	1	466
282	Adrenergic receptors in man: direct identification, physiologic regulation, and clinical alterations. <i>New England Journal of Medicine</i> , 1982 , 307, 18-29	18	368
281	A model of the kinetics of insulin in man. <i>Journal of Clinical Investigation</i> , 1974 , 53, 1481-92	4	359
280	Caveolae as organizers of pharmacologically relevant signal transduction molecules. <i>Annual Review of Pharmacology and Toxicology</i> , 2008 , 48, 359-91	3.9	356
279	Interaction of membrane/lipid rafts with the cytoskeleton: impact on signaling and function: membrane/lipid rafts, mediators of cytoskeletal arrangement and cell signaling. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 532-45	1.1	336
278	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	2	304
277	Duplications of the neuropeptide receptor gene VIPR2 confer significant risk for schizophrenia. <i>Nature</i> , 2011 , 471, 499-503	16.4	257
276	Basal release of ATP: an autocrine-paracrine mechanism for cell regulation. <i>Science Signaling</i> , 2010 , 3, re1	1.8	244
275	Decreased beta-adrenergic receptors on polymorphonuclear leukocytes after adrenergic therapy. <i>New England Journal of Medicine</i> , 1978 , 299, 933-6	18	229
274	Microtubules and actin microfilaments regulate lipid raft/caveolae localization of adenylyl cyclase signaling components. <i>Journal of Biological Chemistry</i> , 2006 , 281, 26391-9	1.4	215
273	Autocrine regulation of T-cell activation by ATP release and P2X7 receptors. <i>FASEB Journal</i> , 2009 , 23, 1685-93	0.3	213
272	Are there multiple imidazoline binding sites?. <i>Trends in Pharmacological Sciences</i> , 1989 , 10, 342-4	3.4	211
271	Receptor number and caveolar co-localization determine receptor coupling efficiency to adenylyl cyclase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 42063-9	1.4	203

270	RGS-PX1, a GAP for GalphaS and sorting nexin in vesicular trafficking. <i>Science</i> , 2001 , 294, 1939-42	10	202
269	Forskolin as a tool for examining adenylyl cyclase expression, regulation, and G protein signaling. <i>Cellular and Molecular Neurobiology</i> , 2003 , 23, 305-14	1.2	197
268	Insulin control of glucose metabolism in man: a new kinetic analysis. <i>Journal of Clinical Investigation</i> , 1975 , 55, 1057-66	4	182
267	Inhibition of cardiac myofibroblast formation and collagen synthesis by activation and overexpression of adenylyl cyclase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 437-42	3.3	173
266	G-protein-coupled receptor signaling components localize in both sarcolemmal and intracellular caveolin-3-associated microdomains in adult cardiac myocytes. <i>Journal of Biological Chemistry</i> , 2005 , 280, 31036-44	1.4	173
265	Platelet function in essential thrombocythemia. Decreased epinephrine responsiveness associated with a deficiency of platelet alpha-adrenergic receptors. <i>New England Journal of Medicine</i> , 1978 , 299, 505-9	18	170
264	alpha Adrenoreceptors but not beta adrenoreceptors increase in rabbit uterus with oestrogen. <i>Nature</i> , 1977 , 270, 624-5	16.4	166
263	Characterization of alpha 2-adrenergic receptors on human platelets using [3H]yohimbine. <i>Biochemical and Biophysical Research Communications</i> , 1980 , 97, 1562-70	1.1	158
262	Seminars in medicine of the Beth Israel Hospital, Boston. Adrenergic receptors--evolving concepts and clinical implications. <i>New England Journal of Medicine</i> , 1996 , 334, 580-5	18	156
261	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	1.4	152
260	Mice lacking P2Y2 receptors have salt-resistant hypertension and facilitated renal Na+ and water reabsorption. <i>FASEB Journal</i> , 2007 , 21, 3717-26	0.3	147
259	Cyclic AMP is both a pro-apoptotic and anti-apoptotic second messenger. <i>Acta Physiologica</i> , 2012 , 204, 277-87	1.6	143
258	Impact of GPCRs in clinical medicine: monogenic diseases, genetic variants and drug targets. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 994-1005	1.1	127
257	Regulation of intracellular signaling and function by caveolin. <i>FASEB Journal</i> , 2014 , 28, 3823-31	0.3	126
256	Beta-adrenergic receptors and receptor signaling in heart failure. <i>Annual Review of Pharmacology and Toxicology</i> , 1999 , 39, 343-60	3.9	124
255	Stoichiometry of receptor-Gs-adenylate cyclase interactions. <i>FASEB Journal</i> , 1991 , 5, 2300-3	0.3	124
254	Autonomic nervous system pharmacogenomics: a progress report. <i>Pharmacological Reviews</i> , 2004 , 56, 31-52	6.7	123
253	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	1	122

252	Verapamil competitively inhibits alpha 1-adrenergic and muscarinic but not beta-adrenergic receptors in rat myocardium. <i>Journal of Cardiovascular Pharmacology</i> , 1982 , 4, 515-20	0.8	119
251	A second trigeminal CGRP receptor: function and expression of the AMY1 receptor. <i>Annals of Clinical and Translational Neurology</i> , 2015 , 2, 595-608	1.6	118
250	Mucosal adjuvant activity of cholera toxin requires Th17 cells and protects against inhalation anthrax. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10638-43	3.3	115
249	Inhibition of apoptosis in normal and transformed intestinal epithelial cells by cAMP through induction of inhibitor of apoptosis protein (IAP)-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 8921-6	3.3	115
248	Paracrine regulation of the epithelial Na ⁺ channel in the mammalian collecting duct by purinergic P2Y2 receptor tone. <i>Journal of Biological Chemistry</i> , 2008 , 283, 36599-607	1.4	114
247	The cyclic AMP effector Epac integrates pro- and anti-fibrotic signals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6386-91	3.3	113
246	Mechanisms of cardiac protection from ischemia/reperfusion injury: a role for caveolae and caveolin-1. <i>FASEB Journal</i> , 2007 , 21, 1565-74	0.3	112
245	Cardiac-specific overexpression of caveolin-3 induces endogenous cardiac protection by mimicking ischemic preconditioning. <i>Circulation</i> , 2008 , 118, 1979-88	4.8	111
244	Increased smooth muscle cell expression of caveolin-1 and caveolae contribute to the pathophysiology of idiopathic pulmonary arterial hypertension. <i>FASEB Journal</i> , 2007 , 21, 2970-9	0.3	111
243	The pro-apoptotic protein Bim is a convergence point for cAMP/protein kinase A- and glucocorticoid-promoted apoptosis of lymphoid cells. <i>Journal of Biological Chemistry</i> , 2004 , 279, 20858-65	1.4	111
242	Do caveolins regulate cells by actions outside of caveolae?. <i>Trends in Cell Biology</i> , 2007 , 17, 51-7	4.5	107
241	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	1.6	106
240	A hypothesis for pathobiology and treatment of COVID-19: The centrality of ACE1/ACE2 imbalance. <i>British Journal of Pharmacology</i> , 2020 , 177, 4825-4844	2	103
239	P2Y2 receptor activates nerve growth factor/TrkA signaling to enhance neuronal differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 19138-43	3.3	102
238	cAMP and Epac in the regulation of tissue fibrosis. <i>British Journal of Pharmacology</i> , 2012 , 166, 447-56	2	101
237	Multi-tasking RGS proteins in the heart: the next therapeutic target?. <i>Circulation Research</i> , 2005 , 96, 401-11	5.1	101
236	Population-based sample reveals gene-gender interactions in blood pressure in White Americans. <i>Hypertension</i> , 2007 , 49, 96-106	2.4	100
235	Gene expression patterns define key transcriptional events in cell-cycle regulation by cAMP and protein kinase A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8561-6	3.3	99

234	Identification and cDNA cloning of a novel human mosaic protein, LGN, based on interaction with G alpha i2. <i>Gene</i> , 1996 , 181, 39-43	1.1	98
233	Inhibition of apoptosis by P2Y2 receptor activation: novel pathways for neuronal survival. <i>Journal of Neuroscience</i> , 2006 , 26, 3798-804	1.6	96
232	Lipid rafts and caveolae and their role in compartmentation of redox signaling. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1357-72	2.2	94
231	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	1.6	94
230	Caveolin-3 expression and caveolae are required for isoflurane-induced cardiac protection from hypoxia and ischemia/reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2008 , 44, 123-30	1.5	93
229	Compartmentation of G-protein-coupled receptors and their signalling components in lipid rafts and caveolae. <i>Biochemical Society Transactions</i> , 2005 , 33, 1131-4	1.3	93
228	Ecto-nucleoside triphosphate diphosphohydrolase 1 (E-NTPDase1/CD39) regulates neutrophil chemotaxis by hydrolyzing released ATP to adenosine. <i>Journal of Biological Chemistry</i> , 2008 , 283, 28480-6	1.4	91
227	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	1.4	91
226	Protection of adult rat cardiac myocytes from ischemic cell death: role of caveolar microdomains and delta-opioid receptors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H344-50	1.4	90
225	Dietary Na ⁺ inhibits the open probability of the epithelial sodium channel in the kidney by enhancing apical P2Y2-receptor tone. <i>FASEB Journal</i> , 2010 , 24, 2056-65	0.3	88
224	Blunted cardiac responses to receptor activation in subjects with Thr164Ile beta(2)-adrenoceptors. <i>Circulation</i> , 2001 , 103, 1048-50	4.8	87
223	Caveolin-1 expression is essential for N-methyl-D-aspartate receptor-mediated Src and extracellular signal-regulated kinase 1/2 activation and protection of primary neurons from ischemic cell death. <i>FASEB Journal</i> , 2008 , 22, 828-40	0.3	86
222	Cyclic AMP promotes cAMP-responsive element-binding protein-dependent induction of cellular inhibitor of apoptosis protein-2 and suppresses apoptosis of colon cancer cells through ERK1/2 and p38 MAPK. <i>Journal of Biological Chemistry</i> , 2004 , 279, 26176-83	1.4	85
221	Genetic variations and polymorphisms of G protein-coupled receptors: functional and therapeutic implications. <i>Annual Review of Pharmacology and Toxicology</i> , 2001 , 41, 593-624	3.9	85
220	Risks of ACE Inhibitor and ARB Usage in COVID-19: Evaluating the Evidence. <i>Clinical Pharmacology and Therapeutics</i> , 2020 , 108, 236-241	1.5	82
219	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	1.4	82
218	Beta adrenergic receptors of polymorphonuclear particulates in bronchial asthma. <i>Journal of Clinical Investigation</i> , 1980 , 65, 577-85	4	80
217	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	1.4	79

216	Cardiac-specific overexpression of caveolin-3 attenuates cardiac hypertrophy and increases natriuretic peptide expression and signaling. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 2273-83	3.8	76
215	Cyclic nucleotide phosphodiesterase profiling reveals increased expression of phosphodiesterase 7B in chronic lymphocytic leukemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 19532-7	3.3	76
214	The Gq signalling pathway inhibits brown and beige adipose tissue. <i>Nature Communications</i> , 2016 , 7, 10895	5	73
213	Mitochondria-localized caveolin in adaptation to cellular stress and injury. <i>FASEB Journal</i> , 2012 , 26, 4637-49	4.9	72
212	A putative osmoreceptor system that controls neutrophil function through the release of ATP, its conversion to adenosine, and activation of A2 adenosine and P2 receptors. <i>Journal of Leukocyte Biology</i> , 2004 , 76, 245-53	1.8	72
211	Adenylate cyclase 6 determines cAMP formation and aquaporin-2 phosphorylation and trafficking in inner medulla. <i>Journal of the American Society of Nephrology: JASN</i> , 2010 , 21, 2059-68	3.2	70
210	A novel method using fluorescence microscopy for real-time assessment of ATP release from individual cells. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 293, C1420-5	1.6	67
209	ATP released from cardiac fibroblasts via connexin hemichannels activates profibrotic P2Y2 receptors. <i>FASEB Journal</i> , 2012 , 26, 2580-91	0.3	65
208	Neuron-targeted caveolin-1 protein enhances signaling and promotes arborization of primary neurons. <i>Journal of Biological Chemistry</i> , 2011 , 286, 33310-21	1.4	64
207	Human adrenoceptor polymorphisms: evolving recognition of clinical importance. <i>Trends in Pharmacological Sciences</i> , 1999 , 20, 94-9	3.4	64
206	Forskolin requires more than the catalytic unit to activate adenylate cyclase. <i>Molecular and Cellular Endocrinology</i> , 1982 , 28, 681-90	1.3	64
205	Polymorphisms and haplotypes of the regulator of G protein signaling-2 gene in normotensives and hypertensives. <i>Hypertension</i> , 2006 , 47, 415-20	2.4	62
204	[3H]Dihydroergocryptine binding to alpha-adrenergic receptors of human platelets. A reassessment using the selective radioligands [3H]prazosin, [3H]yohimbine, and [3H]rauwolscine. <i>Biochemical Pharmacology</i> , 1982 , 31, 2591-7	1.8	62
203	GPCRomics: An Approach to Discover GPCR Drug Targets. <i>Trends in Pharmacological Sciences</i> , 2019 , 40, 378-387	3.4	59
202	GPCRomics: GPCR Expression in Cancer Cells and Tumors Identifies New, Potential Biomarkers and Therapeutic Targets. <i>Frontiers in Pharmacology</i> , 2018 , 9, 431	1.4	59
201	New insights regarding the regulation of chemotaxis by nucleotides, adenosine, and their receptors. <i>Purinergic Signalling</i> , 2012 , 8, 587-98	1	59
200	Focal adhesions in (myo)fibroblasts scaffold adenylyl cyclase with phosphorylated caveolin. <i>Journal of Biological Chemistry</i> , 2006 , 281, 17173-17179	1.4	59
199	Caveolins and cavins in the trafficking, maturation, and degradation of caveolae: implications for cell physiology. <i>American Journal of Physiology - Cell Physiology</i> , 2017 , 312, C459-C477	1.6	58

198	Heredity and the autonomic nervous system in human hypertension. <i>Current Hypertension Reports</i> , 2000 , 2, 16-22	1.7	58
197	beta-adrenergic receptor/cAMP-mediated signaling and apoptosis of S49 lymphoma cells. <i>American Journal of Physiology - Cell Physiology</i> , 2000 , 279, C1665-74	1.6	58
196	P2 purinergic receptor agonists enhance cAMP production in Madin-Darby canine kidney epithelial cells via an autocrine/paracrine mechanism. <i>Journal of Biological Chemistry</i> , 1996 , 271, 2029-32	1.4	58
195	Differential regulation of phospholipase D and phospholipase A2 by protein kinase C in P388D1 macrophages. <i>Biochemical Journal</i> , 1997 , 321 (Pt 3), 805-9	1.2	57
194	ATP activates cAMP production via multiple purinergic receptors in MDCK-D1 epithelial cells. Blockade of an autocrine/paracrine pathway to define receptor preference of an agonist. <i>Journal of Biological Chemistry</i> , 1998 , 273, 23093-7	1.4	57
193	A phospholipase D-mediated pathway for generating diacylglycerol in nuclei from Madin-Darby canine kidney cells. <i>Journal of Biological Chemistry</i> , 1995 , 270, 11738-40	1.4	57
192	Colchicine potentiates beta-adrenoreceptor-stimulated cyclic AMP in lymphoma cells by an action distal to the receptor. <i>Nature</i> , 1978 , 273, 471-3	16.4	57
191	Purinergic inhibition of ENaC produces aldosterone escape. <i>Journal of the American Society of Nephrology: JASN</i> , 2010 , 21, 1903-11	3.2	56
190	Membrane rafts and caveolae in cardiovascular signaling. <i>Current Opinion in Nephrology and Hypertension</i> , 2009 , 18, 50-6	0.9	56
189	P2Y receptors of MDCK cells: epithelial cell regulation by extracellular nucleotides. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2001 , 28, 351-4	1	55
188	Nuclear phospholipase D in Madin-Darby canine kidney cells. Guanosine 5PO-(thiotriphosphate)-stimulated activation is mediated by RhoA and is downstream of protein kinase C. <i>Journal of Biological Chemistry</i> , 1995 , 270, 29843-7	1.4	55
187	Defining the cellular repertoire of GPCRs identifies a profibrotic role for the most highly expressed receptor, protease-activated receptor 1, in cardiac fibroblasts. <i>FASEB Journal</i> , 2012 , 26, 4540-7	0.3	52
186	Life cycles of cardiac alpha 1- and beta-adrenergic receptors. <i>Biochemical Pharmacology</i> , 1987 , 36, 1-6	1.8	52
185	Hypotension after quinidine plus verapamil. Possible additive competition at alpha-adrenergic receptors. <i>New England Journal of Medicine</i> , 1985 , 312, 167-70	18	52
184	GPCR expression in the heart; "new" receptors in myocytes and fibroblasts. <i>Trends in Cardiovascular Medicine</i> , 2004 , 14, 94-9	2.3	50
183	P2Y11 receptors activate adenylyl cyclase and contribute to nucleotide-promoted cAMP formation in MDCK-D(1) cells. A mechanism for nucleotide-mediated autocrine-paracrine regulation. <i>Journal of Biological Chemistry</i> , 2002 , 277, 7761-5	1.4	50
182	GPR68, a proton-sensing GPCR, mediates interaction of cancer-associated fibroblasts and cancer cells. <i>FASEB Journal</i> , 2018 , 32, 1170-1183	0.3	47
181	Clonal growth of lymphoid cells in serum-free media requires elimination of H2O2 toxicity. <i>Journal of Cellular Physiology</i> , 1983 , 115, 31-6	1.9	46

180	Time-dependent evolution of functional vs. remodeling signaling in induced pluripotent stem cell-derived cardiomyocytes and induced maturation with biomechanical stimulation. <i>FASEB Journal</i> , 2016 , 30, 1464-79	0.3	45
179	Cloning, expression, signaling mechanisms, and membrane targeting of P2Y(11) receptors in Madin Darby canine kidney cells. <i>Molecular Pharmacology</i> , 2001 , 60, 26-35	1	45
178	Gene expression signatures of cAMP/protein kinase A (PKA)-promoted, mitochondrial-dependent apoptosis. Comparative analysis of wild-type and cAMP-deathless S49 lymphoma cells. <i>Journal of Biological Chemistry</i> , 2008 , 283, 4304-13	1.4	44
177	An arginine/glutamine difference at the juxtaposition of transmembrane domain 6 and the third extracellular loop contributes to the markedly different nucleotide selectivities of human and canine P2Y11 receptors. <i>Molecular Pharmacology</i> , 2001 , 60, 1375-82	1	44
176	Agonist-induced redistribution of beta-adrenergic receptors on intact human mononuclear leukocytes: redistributed receptors are nonfunctional. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1985 , 61, 1081-8	1.5	44
175	Divergent requirement for G β and cAMP in the differentiation and inflammatory profile of distinct mouse Th subsets. <i>Journal of Clinical Investigation</i> , 2012 , 122, 963-73	4	43
174	Cellular mechanisms of tissue fibrosis. 6. Purinergic signaling and response in fibroblasts and tissue fibrosis. <i>American Journal of Physiology - Cell Physiology</i> , 2014 , 306, C779-88	1.6	42
173	12-lipoxygenase in opioid-induced delayed cardioprotection: gene array, mass spectrometric, and pharmacological analyses. <i>Circulation Research</i> , 2003 , 92, 676-82	5.2	41
172	Interaction of the protein nucleobindin with G alpha i2, as revealed by the yeast two-hybrid system. <i>FEBS Letters</i> , 1995 , 373, 155-8	1.1	41
171	Renal alpha-adrenergic receptor alterations: a cause of essential hypertension?. <i>FASEB Journal</i> , 1989 , 3, 139-44	0.3	39
170	Disruption of protein kinase A localization using a trans-activator of transcription (TAT)-conjugated A-kinase-anchoring peptide reduces cardiac function. <i>Journal of Biological Chemistry</i> , 2010 , 285, 27632-40	1.4	37
169	G Protein-Coupled Receptor (GPCR) Expression in Native Cells: "Novel" endoGPCRs as Physiologic Regulators and Therapeutic Targets. <i>Molecular Pharmacology</i> , 2015 , 88, 181-7	1	36
168	Increase in cellular cyclic AMP concentrations reverses the profibrogenic phenotype of cardiac myofibroblasts: a novel therapeutic approach for cardiac fibrosis. <i>Molecular Pharmacology</i> , 2013 , 84, 787-93	1	36
167	Human sympathetic activation by alpha2-adrenergic blockade with yohimbine: Bimodal, epistatic influence of cytochrome P450-mediated drug metabolism. <i>Clinical Pharmacology and Therapeutics</i> , 2004 , 76, 139-53	1.5	36
166	Evolving concepts of partial agonism. The beta-adrenergic receptor as a paradigm. <i>Biochemical Pharmacology</i> , 1992 , 43, 119-30	1.8	36
165	Uridine triphosphate (UTP) induces profibrotic responses in cardiac fibroblasts by activation of P2Y2 receptors. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 49, 362-9	1.5	35
164	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	1.6	35
163	A key role for protein kinase A in homologous desensitization of the beta 2-adrenergic receptor pathway in S49 lymphoma cells. <i>Journal of Biological Chemistry</i> , 1996 , 271, 895-900	1.4	35

162	GPR68: An Emerging Drug Target in Cancer. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	1.9	34
161	GPCR expression in tissues and cells: are the optimal receptors being used as drug targets?. <i>British Journal of Pharmacology</i> , 2012 , 165, 1613-1616	2	34
160	Discrete intracellular signaling domains of soluble adenylyl cyclase: camps of cAMP?. <i>Science Signaling</i> , 2004 , 2004, pe19	1.8	34
159	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	1.4	34
158	Adrenergic receptors, G proteins, and cell regulation: implications for aging research. <i>Experimental Gerontology</i> , 1993 , 28, 341-8	1.2	34
157	Use of superoxide dismutase and catalase to protect catecholamines from oxidation in tissue culture studies. <i>Analytical Biochemistry</i> , 1984 , 136, 208-16	1	34
156	Bcl-2 protects lymphoma cells from apoptosis but not growth arrest promoted by cAMP and dexamethasone. <i>American Journal of Physiology - Cell Physiology</i> , 2001 , 281, C1642-7	1.6	33
155	Stimulation of phospholipase D via alpha1-adrenergic receptors in Madin-Darby canine kidney cells is independent of PKCalpha and -epsilon activation. <i>Molecular Pharmacology</i> , 1998 , 53, 221-7	1	33
154	Cotranslational cis-phosphorylation of the COOH-terminal tail is a key priming step in the maturation of cAMP-dependent protein kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E1221-9	3.3	31
153	Heterotrimeric G proteins directly regulate MMP14/membrane type-1 matrix metalloprotease: a novel mechanism for GPCR-EGFR transactivation. <i>Journal of Biological Chemistry</i> , 2015 , 290, 9941-7	1.4	30
152	Studies of cyclic AMP action using mutant tissue culture cells. <i>In Vitro</i> , 1978 , 14, 140-5		30
151	Inflammation and thrombosis in COVID-19 pathophysiology: proteinase-activated and purinergic receptors as drivers and candidate therapeutic targets. <i>Physiological Reviews</i> , 2021 , 101, 545-567	8.3	30
150	P2Y2 and TrkA receptors interact with Src family kinase for neuronal differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 347, 678-82	1.1	29
149	Do studies in caveolin-knockouts teach us about physiology and pharmacology or instead, the ways mice compensate for Rost proteins?. <i>British Journal of Pharmacology</i> , 2007 , 150, 251-4	2	28
148	P2Y(2) receptor of MDCK cells: cloning, expression, and cell-specific signaling. <i>American Journal of Physiology - Renal Physiology</i> , 2000 , 279, F1045-52	1.2	28
147	Adenosine monophosphate-activated kinase alpha1 promotes endothelial barrier repair. <i>FASEB Journal</i> , 2011 , 25, 3356-65	0.3	27
146	Genetic variation in G-protein-coupled receptors--consequences for G-protein-coupled receptors as drug targets. <i>Expert Opinion on Therapeutic Targets</i> , 2005 , 9, 1247-65	1.5	27
145	Immunolectron microscopic identification of cytoplasmic and nuclear Gs alpha in S49 lymphoma cells. <i>FASEB Journal</i> , 1994 , 8, 252-8	0.3	27

144	Molecular mechanism of beta-adrenergic receptor blockers with intrinsic sympathomimetic activity. <i>FASEB Journal</i> , 1988 , 2, 2891-4	0.3	27
143	A hypothesis linking intracellular sodium, membrane receptors, and hypertension. <i>Life Sciences</i> , 1984 , 34, 1009-13	1.9	27
142	Prostaglandin E inhibits profibrotic function of human pulmonary fibroblasts by disrupting Ca signaling. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019 , 316, L810-L821	1.4	26
141	Cyclic AMP concentrations in dendritic cells induce and regulate Th2 immunity and allergic asthma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1529-34	3.3	26
140	GPCRs show widespread differential mRNA expression and frequent mutation and copy number variation in solid tumors. <i>PLoS Biology</i> , 2019 , 17, e3000434	3.1	26
139	Increased expression of the pro-apoptotic protein BIM, a mechanism for cAMP/protein kinase A (PKA)-induced apoptosis of immature T cells. <i>Journal of Biological Chemistry</i> , 2011 , 286, 33260-7	1.4	25
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