

# Miles D Houslay

## List of Publications by Year in Descending Order

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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.

208 papers	16,249 citations	70 h-index	123 g-index
214 ext. papers	17,450 ext. citations	7.6 avg, IF	6.35 L-index

#	Paper	IF	Citations
208	Creating a potential diagnostic for prostate cancer risk stratification (InformMDx) by translating novel scientific discoveries concerning cAMP degrading phosphodiesterase-4D7 (PDE4D7). <i>Clinical Science</i> , <b>2019</b> , 133, 269-286	6.5	3
207	Small-molecule allosteric activators of PDE4 long form cyclic AMP phosphodiesterases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 13320-13329	11.5	35
206	A high-fat diet promotes depression-like behavior in mice by suppressing hypothalamic PKA signaling. <i>Translational Psychiatry</i> , <b>2019</b> , 9, 141	8.6	40
205	The Association of the Long Prostate Cancer Expressed PDE4D Transcripts to Poor Patient Outcome Depends on the Tumour's TMPRSS2-ERG Fusion Status. <i>Prostate Cancer</i> , <b>2019</b> , 2019, 8107807	1.9	1
204	Validation of Cyclic Adenosine Monophosphate Phosphodiesterase-4D7 for its Independent Contribution to Risk Stratification in a Prostate Cancer Patient Cohort with Longitudinal Biological Outcomes. <i>European Urology Focus</i> , <b>2018</b> , 4, 376-384	5.1	5
203	The Prognostic PDE4D7 Score in a Diagnostic Biopsy Prostate Cancer Patient Cohort with Longitudinal Biological Outcomes. <i>Prostate Cancer</i> , <b>2018</b> , 2018, 5821616	1.9	5
202	DISC1 regulates N-methyl-D-aspartate receptor dynamics: abnormalities induced by a Disc1 mutation modelling a translocation linked to major mental illness. <i>Translational Psychiatry</i> , <b>2018</b> , 8, 184	8.6	11
201	Identification of a multifunctional docking site on the catalytic unit of phosphodiesterase-4 (PDE4) that is utilised by multiple interaction partners. <i>Biochemical Journal</i> , <b>2017</b> , 474, 597-609	3.8	21
200	Aggregation of scaffolding protein DISC1 dysregulates phosphodiesterase 4 in Huntington's disease. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 1438-1450	15.9	26
199	Compartmentalized PDE4A5 Signaling Impairs Hippocampal Synaptic Plasticity and Long-Term Memory. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 8936-46	6.6	30
198	p75 Neurotrophin Receptor Regulates Energy Balance in Obesity. <i>Cell Reports</i> , <b>2016</b> , 14, 255-68	10.6	32
197	Human PDE4D isoform composition is deregulated in primary prostate cancer and indicative for disease progression and development of distant metastases. <i>Oncotarget</i> , <b>2016</b> , 7, 70669-70684	3.3	15
196	Sleep deprivation causes memory deficits by negatively impacting neuronal connectivity in hippocampal area CA1. <i>ELife</i> , <b>2016</b> , 5,	8.9	128
195	Melanoma, Viagra, and PDE5 Inhibitors: Proliferation and Metastasis. <i>Trends in Cancer</i> , <b>2016</b> , 2, 163-165	12.5	4
194	SUMOylation of DISC1: a potential role in neural progenitor proliferation in the developing cortex. <i>Molecular Neuropsychiatry</i> , <b>2016</b> , 2, 20-27	4.9	3
193	Nuclear pore complex remodeling by p75(NTR) cleavage controls TGF- $\beta$ signaling and astrocyte functions. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 1077-80	25.5	29
192	The role of ventral striatal cAMP signaling in stress-induced behaviors. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 1094-100	25.5	50

191	Dimerization of cAMP phosphodiesterase-4 (PDE4) in living cells requires interfaces located in both the UCR1 and catalytic unit domains. <i>Cellular Signalling</i> , <b>2015</b> , 27, 756-69	4.9	19
190	PKA phosphorylation of p62/SQSTM1 regulates PB1 domain interaction partner binding. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2014</b> , 1843, 2765-74	4.9	30
189	Heterozygous mutations in cyclic AMP phosphodiesterase-4D (PDE4D) and protein kinase A (PKA) provide new insights into the molecular pathology of acrodysostosis. <i>Cellular Signalling</i> , <b>2014</b> , 26, 2446-59	4.9	41
188	Mitotic activation of the DISC1-inducible cyclic AMP phosphodiesterase-4D9 (PDE4D9), through multi-site phosphorylation, influences cell cycle progression. <i>Cellular Signalling</i> , <b>2014</b> , 26, 1958-74	4.9	21
187	Chemical informatics uncovers a new role for moexipril as a novel inhibitor of cAMP phosphodiesterase-4 (PDE4). <i>Biochemical Pharmacology</i> , <b>2013</b> , 85, 1297-305	6	14
186	Phosphodiesterase-8A binds to and regulates Raf-1 kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E1533-42	11.5	38
185	Eukaryotic translation initiation factor 3, subunit a, regulates the extracellular signal-regulated kinase pathway. <i>Molecular and Cellular Biology</i> , <b>2012</b> , 32, 88-95	4.8	27
184	Elucidation of a structural basis for the inhibitor-driven, p62 (SQSTM1)-dependent intracellular redistribution of cAMP phosphodiesterase-4A4 (PDE4A4). <i>Journal of Medicinal Chemistry</i> , <b>2011</b> , 54, 3331-47	8.3	31
183	Integrating cardiac PIP3 and cAMP signaling through a PKA anchoring function of p110 $\alpha$ . <i>Molecular Cell</i> , <b>2011</b> , 42, 84-95	17.6	150
182	Oxygen-dependent cleavage of the p75 neurotrophin receptor triggers stabilization of HIF-1 $\alpha$ . <i>Molecular Cell</i> , <b>2011</b> , 44, 476-90	17.6	52
181	Phosphodiesterase inhibitors: factors that influence potency, selectivity, and action. <i>Handbook of Experimental Pharmacology</i> , <b>2011</b> , 47-84	3.2	41
180	Phosphorylation of cAMP-specific PDE4A5 (phosphodiesterase-4A5) by MK2 (MAPKAPK2) attenuates its activation through protein kinase A phosphorylation. <i>Biochemical Journal</i> , <b>2011</b> , 435, 755-69	3.8	48
179	DISC1-dependent switch from progenitor proliferation to migration in the developing cortex. <i>Nature</i> , <b>2011</b> , 473, 92-6	50.4	160
178	Hard times for oncogenic BRAF-expressing melanoma cells. <i>Cancer Cell</i> , <b>2011</b> , 19, 3-4	24.3	15
177	A phosphodiesterase 3B-based signaling complex integrates exchange protein activated by cAMP 1 and phosphatidylinositol 3-kinase signals in human arterial endothelial cells. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 16285-96	5.4	40
176	Small molecule AKAP-protein kinase A (PKA) interaction disruptors that activate PKA interfere with compartmentalized cAMP signaling in cardiac myocytes. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 9079-96	5.4	80
175	Interaction between LIS1 and PDE4, and its role in cytoplasmic dynein function. <i>Journal of Cell Science</i> , <b>2011</b> , 124, 2253-66	5.3	20
174	Arresting times for PTEN. <i>EMBO Journal</i> , <b>2011</b> , 30, 2513-5	13	1

173	Disrupted-in-Schizophrenia 1 (DISC1) regulates spines of the glutamate synapse via Rac1. <i>Nature Neuroscience</i> , <b>2010</b> , 13, 327-32	25.5	323
172	High-content screening of feeder-free human embryonic stem cells to identify pro-survival small molecules. <i>Biochemical Journal</i> , <b>2010</b> , 432, 21-33	3.8	33
171	Cyclic AMP controls mTOR through regulation of the dynamic interaction between Rheb and phosphodiesterase 4D. <i>Molecular and Cellular Biology</i> , <b>2010</b> , 30, 5406-20	4.8	50
170	Cross talk between phosphatidylinositol 3-kinase and cyclic AMP (cAMP)-protein kinase a signaling pathways at the level of a protein kinase B/beta-arrestin/cAMP phosphodiesterase 4 complex. <i>Molecular and Cellular Biology</i> , <b>2010</b> , 30, 1660-72	4.8	57
169	Cyclic AMP phosphodiesterase 4D (PDE4D) Tethers EPAC1 in a vascular endothelial cadherin (VE-Cad)-based signaling complex and controls cAMP-mediated vascular permeability. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 33614-22	5.4	72
168	Evolutionarily conserved role of calcineurin in phosphodegron-dependent degradation of phosphodiesterase 4D. <i>Molecular and Cellular Biology</i> , <b>2010</b> , 30, 4379-90	4.8	22
167	Derivation of endothelial cells from human embryonic stem cells by directed differentiation: analysis of microRNA and angiogenesis in vitro and in vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2010</b> , 30, 1389-97	9.4	131
166	p62 (SQSTM1) forms part of a novel, reversible aggregate containing a specific conformer of the cAMP degrading phosphodiesterase, PDE4A4. <i>Autophagy</i> , <b>2010</b> , 6, 1198-200	10.2	11
165	Lentivirus-mediated reprogramming of somatic cells in the absence of transgenic transcription factors. <i>Molecular Therapy</i> , <b>2010</b> , 18, 2139-45	11.7	30
164	Inferring signaling pathway topologies from multiple perturbation measurements of specific biochemical species. <i>Science Signaling</i> , <b>2010</b> , 3, ra20	8.8	81
163	Phosphodiesterase 11A in brain is enriched in ventral hippocampus and deletion causes psychiatric disease-related phenotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 8457-62	11.5	53
162	Selective SUMO modification of cAMP-specific phosphodiesterase-4D5 (PDE4D5) regulates the functional consequences of phosphorylation by PKA and ERK. <i>Biochemical Journal</i> , <b>2010</b> , 428, 55-65	3.8	33
161	Erythro-9-(2-hydroxy-3-nonyl)adenine (EHNA) blocks differentiation and maintains the expression of pluripotency markers in human embryonic stem cells. <i>Biochemical Journal</i> , <b>2010</b> , 432, 575-84	3.8	6
160	Identification and characterization of small-molecule ligands that maintain pluripotency of human embryonic stem cells. <i>Biochemical Society Transactions</i> , <b>2010</b> , 38, 1058-61	5.1	12
159	Underpinning compartmentalised cAMP signalling through targeted cAMP breakdown. <i>Trends in Biochemical Sciences</i> , <b>2010</b> , 35, 91-100	10.3	337
158	A complex between FAK, RACK1, and PDE4D5 controls spreading initiation and cancer cell polarity. <i>Current Biology</i> , <b>2010</b> , 20, 1086-92	6.3	162
157	p62 (SQSTM1) and cyclic AMP phosphodiesterase-4A4 (PDE4A4) locate to a novel, reversible protein aggregate with links to autophagy and proteasome degradation pathways. <i>Cellular Signalling</i> , <b>2010</b> , 22, 1576-96	4.9	28
156	MEK1 binds directly to betaarrestin1, influencing both its phosphorylation by ERK and the timing of its isoprenaline-stimulated internalization. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 11425-35	5.4	62

155	The cardiac IKs potassium channel macromolecular complex includes the phosphodiesterase PDE4D3. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 9140-6	5.4	108
154	Mdm2 directs the ubiquitination of beta-arrestin-sequestered cAMP phosphodiesterase-4D5. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 16170-16182	5.4	58
153	Arrestin times for developing antipsychotics and beta-blockers. <i>Science Signaling</i> , <b>2009</b> , 2, pe22	8.8	6
152	Phosphorylation of RACK1 on tyrosine 52 by c-Abl is required for insulin-like growth factor I-mediated regulation of focal adhesion kinase. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 20263-74	5.4	79
151	A scanning peptide array approach uncovers association sites within the JNK/beta arrestin signalling complex. <i>FEBS Letters</i> , <b>2009</b> , 583, 3310-6	3.8	23
150	Sleep deprivation impairs cAMP signalling in the hippocampus. <i>Nature</i> , <b>2009</b> , 461, 1122-5	50.4	285
149	Disrupting specific PDZ domain-mediated interactions for therapeutic benefit. <i>British Journal of Pharmacology</i> , <b>2009</b> , 158, 483-5	8.6	15
148	In cardiac myocytes, cAMP elevation triggers the down-regulation of transcripts and promoter activity for cyclic AMP phosphodiesterase-4A10 (PDE4A10). <i>Cellular Signalling</i> , <b>2008</b> , 20, 2071-83	4.9	16
147	Ndel1 alters its conformation by sequestering cAMP-specific phosphodiesterase-4D3 (PDE4D3) in a manner that is dynamically regulated through Protein Kinase A (PKA). <i>Cellular Signalling</i> , <b>2008</b> , 20, 2356-69	4.9	41
146	Constitutive activation of the G-protein subunit Galphas within forebrain neurons causes PKA-dependent alterations in fear conditioning and cortical Arc mRNA expression. <i>Learning and Memory</i> , <b>2008</b> , 15, 75-83	2.8	29
145	Mutations of beta-arrestin 2 that limit self-association also interfere with interactions with the beta2-adrenoceptor and the ERK1/2 MAPKs: implications for beta2-adrenoceptor signalling via the ERK1/2 MAPKs. <i>Biochemical Journal</i> , <b>2008</b> , 413, 51-60	3.8	37
144	EPAC and PKA allow cAMP dual control over DNA-PK nuclear translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 12791-6	11.5	96
143	Tyrosine 302 in RACK1 is essential for insulin-like growth factor-I-mediated competitive binding of PP2A and beta1 integrin and for tumor cell proliferation and migration. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 22952-61	5.4	62
142	Protein kinase A type I and type II define distinct intracellular signaling compartments. <i>Circulation Research</i> , <b>2008</b> , 103, 836-44	15.7	158
141	Human PDE4A8, a novel brain-expressed PDE4 cAMP-specific phosphodiesterase that has undergone rapid evolutionary change. <i>Biochemical Journal</i> , <b>2008</b> , 411, 361-9	3.8	23
140	Regulation of a Drosophila melanogaster cGMP-specific phosphodiesterase by prenylation and interaction with a prenyl-binding protein. <i>Biochemical Journal</i> , <b>2008</b> , 414, 363-74	3.8	8
139	Investigation of the alkenyldiarylmethane non-nucleoside reverse transcriptase inhibitors as potential cAMP phosphodiesterase-4B2 inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2008</b> , 18, 1530-3	2.9	4
138	Disrupted in schizophrenia 1 and phosphodiesterase 4B: towards an understanding of psychiatric illness. <i>Journal of Physiology</i> , <b>2007</b> , 584, 401-5	3.9	75

137	1H NMR structural and functional characterisation of a cAMP-specific phosphodiesterase-4D5 (PDE4D5) N-terminal region peptide that disrupts PDE4D5 interaction with the signalling scaffold proteins, beta-arrestin and RACK1. <i>Cellular Signalling</i> , <b>2007</b> , 19, 2612-24	4.9	51
136	Structures of the four subfamilies of phosphodiesterase-4 provide insight into the selectivity of their inhibitors. <i>Biochemical Journal</i> , <b>2007</b> , 408, 193-201	3.8	84
135	Isoform-selective susceptibility of DISC1/phosphodiesterase-4 complexes to dissociation by elevated intracellular cAMP levels. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 9513-24	6.6	144
134	Constitutive activation of Galphas within forebrain neurons causes deficits in sensorimotor gating because of PKA-dependent decreases in cAMP. <i>Neuropsychopharmacology</i> , <b>2007</b> , 32, 577-88	8.7	58
133	cAMP-Specific phosphodiesterase-4 enzymes in the cardiovascular system: a molecular toolbox for generating compartmentalized cAMP signaling. <i>Circulation Research</i> , <b>2007</b> , 100, 950-66	15.7	247
132	Compartmentalization of cAMP-dependent signaling by phosphodiesterase-4D is involved in the regulation of vasopressin-mediated water reabsorption in renal principal cells. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2007</b> , 18, 199-212	12.7	120
131	Chemoresistant KM12C colon cancer cells are addicted to low cyclic AMP levels in a phosphodiesterase 4-regulated compartment via effects on phosphoinositide 3-kinase. <i>Cancer Research</i> , <b>2007</b> , 67, 5248-57	10.1	58
130	Dynamic regulation, desensitization, and cross-talk in discrete subcellular microdomains during beta2-adrenoceptor and prostanoid receptor cAMP signaling. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 34235-49	5.4	46
129	PDE4B5, a novel, super-short, brain-specific cAMP phosphodiesterase-4 variant whose isoform-specifying N-terminal region is identical to that of cAMP phosphodiesterase-4D6 (PDE4D6). <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2007</b> , 322, 600-9	4.7	49
128	Mapping binding sites for the PDE4D5 cAMP-specific phosphodiesterase to the N- and C-domains of beta-arrestin using spot-immobilized peptide arrays. <i>Biochemical Journal</i> , <b>2007</b> , 404, 71-80	3.8	82
127	Behavioral phenotypes of Disc1 missense mutations in mice. <i>Neuron</i> , <b>2007</b> , 54, 387-402	13.9	445
126	p75 neurotrophin receptor regulates tissue fibrosis through inhibition of plasminogen activation via a PDE4/cAMP/PKA pathway. <i>Journal of Cell Biology</i> , <b>2007</b> , 177, 1119-32	7.3	102
125	Oxidative stress employs phosphatidyl inositol 3-kinase and ERK signalling pathways to activate cAMP phosphodiesterase-4D3 (PDE4D3) through multi-site phosphorylation at Ser239 and Ser579. <i>Cellular Signalling</i> , <b>2006</b> , 18, 2056-69	4.9	38
124	Spatial organisation of AKAP18 and PDE4 isoforms in renal collecting duct principal cells. <i>European Journal of Cell Biology</i> , <b>2006</b> , 85, 673-8	6.1	46
123	Hypoxia-induced remodelling of PDE4 isoform expression and cAMP handling in human pulmonary artery smooth muscle cells. <i>European Journal of Cell Biology</i> , <b>2006</b> , 85, 679-91	6.1	31
122	A RSK(y) relationship with promiscuous PKA. <i>Science Signaling</i> , <b>2006</b> , 2006, pe32	8.8	14
121	Intracellular targeting of phosphodiesterase-4 underpins compartmentalized cAMP signaling. <i>Current Topics in Developmental Biology</i> , <b>2006</b> , 75, 225-59	5.3	37
120	Helix-1 of the cAMP-specific phosphodiesterase PDE4A1 regulates its phospholipase-D-dependent redistribution in response to release of Ca <sup>2+</sup> . <i>Journal of Cell Science</i> , <b>2006</b> , 119, 3799-810	5.3	36

119	Compartmentalized phosphodiesterase-2 activity blunts beta-adrenergic cardiac inotropy via an NO/cGMP-dependent pathway. <i>Circulation Research</i> , <b>2006</b> , 98, 226-34	15.7	226
118	PGE(1) stimulation of HEK293 cells generates multiple contiguous domains with different [cAMP]: role of compartmentalized phosphodiesterases. <i>Journal of Cell Biology</i> , <b>2006</b> , 175, 441-51	7.3	155
117	Reduced PDE4 expression and activity contributes to enhanced catecholamine-induced cAMP accumulation in adipocytes from FOXC2 transgenic mice. <i>FEBS Letters</i> , <b>2006</b> , 580, 4126-30	3.8	20
116	A novel role for a Drosophila homologue of cGMP-specific phosphodiesterase in the active transport of cGMP. <i>Biochemical Journal</i> , <b>2006</b> , 393, 481-8	3.8	12
115	Scanning peptide array analyses identify overlapping binding sites for the signalling scaffold proteins, beta-arrestin and RACK1, in cAMP-specific phosphodiesterase PDE4D5. <i>Biochemical Journal</i> , <b>2006</b> , 398, 23-36	3.8	133
114	Phosphodiesterase-4 influences the PKA phosphorylation status and membrane translocation of G-protein receptor kinase 2 (GRK2) in HEK-293beta2 cells and cardiac myocytes. <i>Biochemical Journal</i> , <b>2006</b> , 394, 427-35	3.8	34
113	Cellular Functions of PDE4 Enzymes <b>2006</b> , 99-129		3
112	Compartmentalisation of phosphodiesterases and protein kinase A: opposites attract. <i>FEBS Letters</i> , <b>2005</b> , 579, 3264-70	3.8	163
111	DISC1 and PDE4B are interacting genetic factors in schizophrenia that regulate cAMP signaling. <i>Science</i> , <b>2005</b> , 310, 1187-91	33.3	542
110	Cyclic nucleotide phosphodiesterases in Drosophila melanogaster. <i>Biochemical Journal</i> , <b>2005</b> , 388, 333-43	3.8	46
109	Arrestin times for compartmentalised cAMP signalling and phosphodiesterase-4 enzymes. <i>Current Opinion in Cell Biology</i> , <b>2005</b> , 17, 129-34	9	110
108	In resting COS1 cells a dominant negative approach shows that specific, anchored PDE4 cAMP phosphodiesterase isoforms gate the activation, by basal cyclic AMP production, of AKAP-tethered protein kinase A type II located in the centrosomal region. <i>Cellular Signalling</i> , <b>2005</b> , 17, 1158-73	4.9	97
107	Keynote review: phosphodiesterase-4 as a therapeutic target. <i>Drug Discovery Today</i> , <b>2005</b> , 10, 1503-19	8.8	530
106	Investigation of extracellular signal-regulated kinase 2 mitogen-activated protein kinase phosphorylation and regulation of activity of PDE4 cyclic adenosine monophosphate-specific phosphodiesterases. <i>Methods in Molecular Biology</i> , <b>2005</b> , 307, 225-37	1.4	12
105	Identification and characterization of PDE4A11, a novel, widely expressed long isoform encoded by the human PDE4A cAMP phosphodiesterase gene. <i>Molecular Pharmacology</i> , <b>2005</b> , 67, 1920-34	4.3	48
104	RNA silencing identifies PDE4D5 as the functionally relevant cAMP phosphodiesterase interacting with beta arrestin to control the protein kinase A/AKAP79-mediated switching of the beta2-adrenergic receptor to activation of ERK in HEK293B2 cells. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 33178-89	5.4	172
103	The long and short of vascular smooth muscle phosphodiesterase-4 as a putative therapeutic target. <i>Molecular Pharmacology</i> , <b>2005</b> , 68, 563-7	4.3	20
102	Differential expression of PDE4 cAMP phosphodiesterase isoforms in inflammatory cells of smokers with COPD, smokers without COPD, and nonsmokers. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2004</b> , 287, L332-43	5.8	75

101	PDE4-regulated cAMP degradation controls the assembly of integrin-dependent actin adhesion structures and REF52 cell migration. <i>Journal of Cell Science</i> , <b>2004</b> , 117, 2377-88	5.3	36
100	The dg2 (for) gene confers a renal phenotype in Drosophila by modulation of cGMP-specific phosphodiesterase. <i>Journal of Experimental Biology</i> , <b>2004</b> , 207, 2769-76	3	20
99	Fluorescence resonance energy transfer-based analysis of cAMP dynamics in live neonatal rat cardiac myocytes reveals distinct functions of compartmentalized phosphodiesterases. <i>Circulation Research</i> , <b>2004</b> , 95, 67-75	15.7	309
98	Remodelling of the PDE4 cAMP phosphodiesterase isoform profile upon monocyte-macrophage differentiation of human U937 cells. <i>British Journal of Pharmacology</i> , <b>2004</b> , 142, 339-51	8.6	72
97	Expression, intracellular distribution and basis for lack of catalytic activity of the PDE4A7 isoform encoded by the human PDE4A cAMP-specific phosphodiesterase gene. <i>Biochemical Journal</i> , <b>2004</b> , 380, 371-84	3.8	21
96	Attenuation of the activity of the cAMP-specific phosphodiesterase PDE4A5 by interaction with the immunophilin XAP2. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 33351-63	5.4	132
95	beta-Arrestin-mediated PDE4 cAMP phosphodiesterase recruitment regulates beta-adrenoceptor switching from Gs to Gi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 940-5	11.5	322
94	PDE4 cAMP phosphodiesterases: modular enzymes that orchestrate signalling cross-talk, desensitization and compartmentalization. <i>Biochemical Journal</i> , <b>2003</b> , 370, 1-18	3.8	646
93	Molecular cloning and subcellular distribution of the novel PDE4B4 cAMP-specific phosphodiesterase isoform. <i>Biochemical Journal</i> , <b>2003</b> , 370, 429-38	3.8	47
92	Occupancy of the catalytic site of the PDE4A4 cyclic AMP phosphodiesterase by rolipram triggers the dynamic redistribution of this specific isoform in living cells through a cyclic AMP independent process. <i>Cellular Signalling</i> , <b>2003</b> , 15, 955-71	4.9	33
91	The unique amino-terminal region of the PDE4D5 cAMP phosphodiesterase isoform confers preferential interaction with beta-arrestins. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 49230-8	5.4	86
90	In addition to the SH3 binding region, multiple regions within the N-terminal noncatalytic portion of the cAMP-specific phosphodiesterase, PDE4A5, contribute to its intracellular targeting. <i>Cellular Signalling</i> , <b>2002</b> , 14, 453-65	4.9	41
89	Delineation of RAID1, the RACK1 interaction domain located within the unique N-terminal region of the cAMP-specific phosphodiesterase, PDE4D5. <i>BMC Biochemistry</i> , <b>2002</b> , 3, 24	4.8	38
88	Long PDE4 cAMP specific phosphodiesterases are activated by protein kinase A-mediated phosphorylation of a single serine residue in Upstream Conserved Region 1 (UCR1). <i>British Journal of Pharmacology</i> , <b>2002</b> , 136, 421-33	8.6	198
87	Phosphorylation-dependent interactions between ADAM15 cytoplasmic domain and Src family protein-tyrosine kinases. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 4999-5007	5.4	94
86	Cyclic AMP-dependent transcriptional up-regulation of phosphodiesterase 4D5 in human airway smooth muscle cells. Identification and characterization of a novel PDE4D5 promoter. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 35980-9	5.4	85
85	TAPAS-1, a novel microdomain within the unique N-terminal region of the PDE4A1 cAMP-specific phosphodiesterase that allows rapid, Ca <sup>2+</sup> -triggered membrane association with selectivity for interaction with phosphatidic acid. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 28298-309	5.4	127
84	The RACK1 scaffold protein: a dynamic cog in cell response mechanisms. <i>Molecular Pharmacology</i> , <b>2002</b> , 62, 1261-73	4.3	328

83	Targeting of cyclic AMP degradation to beta 2-adrenergic receptors by beta-arrestins. <i>Science</i> , <b>2002</b> , 298, 834-6	33.3	428
82	Discriminative stimulus effects of the type-4 phosphodiesterase inhibitor rolipram in rats. <i>Psychopharmacology</i> , <b>2001</b> , 158, 297-304	4.7	5
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