

George S Baillie

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.

187
papers

10,204
citations

55
h-index

95
g-index

199
ext. papers

11,444
ext. citations

6.7
avg, IF

6.07
L-index

#	Paper	IF	Citations
187	Phosphodiesterase type 4 anchoring regulates cAMP signaling to Popeye domain-containing proteins.. <i>Journal of Molecular and Cellular Cardiology</i> , 2022 , 165, 86-102	5.8	0
186	Peptides derived from the SARS-CoV-2 receptor binding motif bind to ACE2 but do not block ACE2-mediated host cell entry or pro-inflammatory cytokine induction. <i>PLoS ONE</i> , 2021 , 16, e0260283	3.7	
185	The RanBP2/RanGAP1-SUMO complex gates ßarrestin2 nuclear entry to regulate the Mdm2-p53 signaling axis. <i>Oncogene</i> , 2021 , 40, 2243-2257	9.2	4
184	Post-translational regulation of cardiac myosin binding protein-C: A graphical review. <i>Cellular Signalling</i> , 2020 , 76, 109788	4.9	2
183	Dynamic Palmitoylation of the Sodium-Calcium Exchanger Modulates Its Structure, Affinity for Lipid-Ordered Domains, and Inhibition by XIP. <i>Cell Reports</i> , 2020 , 31, 107697	10.6	16
182	Structural insights into TAZ2 domain-mediated CBP/p300 recruitment by transactivation domain 1 of the lymphopoietic transcription factor E2A. <i>Journal of Biological Chemistry</i> , 2020 , 295, 4303-4315	5.4	2
181	Investigation of Novel Cavin-1/Suppressor of Cytokine Signaling 3 (SOCS3) Interactions by Coimmunoprecipitation, Peptide Pull-Down, and Peptide Array Overlay Approaches. <i>Methods in Molecular Biology</i> , 2020 , 2169, 105-118	1.4	1
180	Phosphodiesterase 4B: Master Regulator of Brain Signaling. <i>Cells</i> , 2020 , 9,	7.9	11
179	Fibrin Breakdown Assay. <i>Bio-protocol</i> , 2020 , 10, e3585	0.9	
178	Measuring cAMP Specific Phosphodiesterase Activity: A Two-step Radioassay. <i>Bio-protocol</i> , 2020 , 10, e3581	0.9	
177	Epidermal growth factor signaling through transient receptor potential melastatin 7 cation channel regulates vascular smooth muscle cell function. <i>Clinical Science</i> , 2020 , 134, 2019-2035	6.5	4
176	Chorea-related mutations in PDE10A result in aberrant compartmentalization and functionality of the enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 677-688	11.5	5
175	The enigmatic helicase DHX9 and its association with the hallmarks of cancer. <i>Future Science OA</i> , 2020 , 7, FSO650	2.7	7
174	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> , 2019 , 116, 13320-13329	11.5	35
173	A high-fat diet promotes depression-like behavior in mice by suppressing hypothalamic PKA signaling. <i>Translational Psychiatry</i> , 2019 , 9, 141	8.6	40
172	AKAP95 Organizes a Nuclear Microdomain to Control Local cAMP for Regulating Nuclear PKA. <i>Cell Chemical Biology</i> , 2019 , 26, 885-891.e4	8.2	26
171	Targeting B-Raf inhibitor resistant melanoma with novel cell penetrating peptide disrupters of PDE8A - C-Raf. <i>BMC Cancer</i> , 2019 , 19, 266	4.8	8

170	Phosphorylation of PDE4A5 by MAPKAPK2 attenuates fibrin degradation via p75 signalling. <i>Journal of Biochemistry</i> , 2019 , 166, 97-106	3.1	6
169	Methods to Investigate Arrestins in Complex with Phosphodiesterases. <i>Methods in Molecular Biology</i> , 2019 , 1957, 121-137	1.4	
168	PDE10A mutations help to unwrap the neurobiology of hyperkinetic disorders. <i>Cellular Signalling</i> , 2019 , 60, 31-38	4.9	4
167	Effect of tacrolimus on skin microbiome in atopic dermatitis. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019 , 74, 1400-1406	9.3	6
166	Therapeutic targeting of 3',5'-cyclic nucleotide phosphodiesterases: inhibition and beyond. <i>Nature Reviews Drug Discovery</i> , 2019 , 18, 770-796	64.1	100
165	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> , 2019 , 2019, 8107807	1.9	1
164	Reshaping cAMP nanodomains through targeted disruption of compartmentalised phosphodiesterase signalosomes. <i>Biochemical Society Transactions</i> , 2019 , 47, 1405-1414	5.1	9
163	Understanding PDE4B function in Alzheimer's disease; a target for novel therapeutic approaches. <i>Biochemical Society Transactions</i> , 2019 , 47, 1557-1565	5.1	15
162	Interaction of suppressor of cytokine signalling 3 with cavin-1 links SOCS3 function and cavin-1 stability. <i>Nature Communications</i> , 2018 , 9, 168	17.4	21
161	FBXW7 regulates DISC1 stability via the ubiquitin-proteasome system. <i>Molecular Psychiatry</i> , 2018 , 23, 1278-1286	15.1	22
160	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> , 2018 , 4, 376-384	5.1	5
159	Amyloid β synaptotoxicity is Wnt-PCP dependent and blocked by fasudil. <i>Alzheimer's and Dementia</i> , 2018 , 14, 306-317	1.2	46
158	RAB40C regulates RACK1 stability via the ubiquitin-proteasome system. <i>Future Science OA</i> , 2018 , 4, FSO317	3.7	10
157	The Prognostic PDE4D7 Score in a Diagnostic Biopsy Prostate Cancer Patient Cohort with Longitudinal Biological Outcomes. <i>Prostate Cancer</i> , 2018 , 2018, 5821616	1.9	5
156	Increase in Ca current by sustained cAMP levels enhances proliferation rate in GH3 cells. <i>Life Sciences</i> , 2018 , 192, 144-150	6.8	5
155	A769662 Inhibits Insulin-Stimulated Akt Activation in Human Macrovascular Endothelial Cells Independent of AMP-Activated Protein Kinase. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	6
154	Modelling and mathematical analysis of the M μ receptor-dependent joint signalling and secondary messenger network in CHO cells. <i>Mathematical Medicine and Biology</i> , 2018 , 35, 279-297	1.3	
153	A role for APP in Wnt signalling links synapse loss with β amyloid production. <i>Translational Psychiatry</i> , 2018 , 8, 179	8.6	44

152	A biochemical and genetic discovery pipeline identifies PLC β as a nonreceptor activator of heterotrimeric G-proteins. <i>Journal of Biological Chemistry</i> , 2018 , 293, 16964-16983	5.4	10
151	PDE4-Mediated cAMP Signalling. <i>Journal of Cardiovascular Development and Disease</i> , 2018 , 5,	4.2	38
150	Selective inhibition of phosphodiesterases 4, 5 and 9 induces HSP20 phosphorylation and attenuates amyloid beta 1-42-mediated cytotoxicity. <i>FEBS Open Bio</i> , 2017 , 7, 64-73	2.7	9
149	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> , 2017 , 474, 597-609	3.8	21
148	TIAM1 Antagonizes TAZ/YAP Both in the Destruction Complex in the Cytoplasm and in the Nucleus to Inhibit Invasion of Intestinal Epithelial Cells. <i>Cancer Cell</i> , 2017 , 31, 621-634.e6	24.3	51
147	Molecular mechanism of G β activation by non-GPCR proteins with a G β binding and activating motif. <i>Nature Communications</i> , 2017 , 8, 15163	17.4	23
146	Cardiac cAMP Microdomains and Their Modulation Using Disruptor Peptides. <i>Cardiac and Vascular Biology</i> , 2017 , 161-173	0.2	
145	PDE2A2 regulates mitochondria morphology and apoptotic cell death via local modulation of cAMP/PKA signalling. <i>ELife</i> , 2017 , 6,	8.9	57
144	Peptide array-based screening reveals a large number of proteins interacting with the ankyrin-repeat domain of the zDHHC17 -acyltransferase. <i>Journal of Biological Chemistry</i> , 2017 , 292, 17190-17202	5.4	17
143	PDE8 controls CD4 T cell motility through the PDE8A-Raf-1 kinase signaling complex. <i>Cellular Signalling</i> , 2017 , 40, 62-72	4.9	8
142	RACK1 stabilises the activity of PP2A to regulate the transformed phenotype in mammary epithelial cells. <i>Cellular Signalling</i> , 2017 , 35, 290-300	4.9	6
141	Ambra1 spatially regulates Src activity and Src/FAK-mediated cancer cell invasion via trafficking networks. <i>ELife</i> , 2017 , 6,	8.9	24
140	PTEN controls glandular morphogenesis through a juxtamembrane β -Arrestin1/ARHGAP21 scaffolding complex. <i>ELife</i> , 2017 , 6,	8.9	15
139	Apremilast Induces Apoptosis of Human Colorectal Cancer Cells with Mutant. <i>Anticancer Research</i> , 2017 , 37, 3833-3839	2.3	10
138	Epstein-Barr virus nuclear antigen 1 interacts with regulator of chromosome condensation 1 dynamically throughout the cell cycle. <i>Journal of General Virology</i> , 2017 , 98, 251-265	4.9	11
137	Compartmentalized PDE4A5 Signaling Impairs Hippocampal Synaptic Plasticity and Long-Term Memory. <i>Journal of Neuroscience</i> , 2016 , 36, 8936-46	6.6	30
136	Phosphorylation of Janus kinase 1 (JAK1) by AMP-activated protein kinase (AMPK) links energy sensing to anti-inflammatory signaling. <i>Science Signaling</i> , 2016 , 9, ra109	8.8	59
135	Missense mutation in DISC1 C-terminal coiled-coil has GSK3 β signaling and sex-dependent behavioral effects in mice. <i>Scientific Reports</i> , 2016 , 6, 18748	4.9	18

134	p75 Neurotrophin Receptor Regulates Energy Balance in Obesity. <i>Cell Reports</i> , 2016 , 14, 255-68	10.6	32
133	Specific Inhibition of Phosphodiesterase-4B Results in Anxiolysis and Facilitates Memory Acquisition. <i>Neuropsychopharmacology</i> , 2016 , 41, 1080-92	8.7	38
132	Human PDE4D isoform composition is deregulated in primary prostate cancer and indicative for disease progression and development of distant metastases. <i>Oncotarget</i> , 2016 , 7, 70669-70684	3.3	15
131	Sleep deprivation causes memory deficits by negatively impacting neuronal connectivity in hippocampal area CA1. <i>ELife</i> , 2016 , 5,	8.9	128
130	Gpr161 anchoring of PKA consolidates GPCR and cAMP signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7786-91	11.5	59
129	Non-genetic therapeutic approaches to Canavan disease. <i>Journal of the Neurological Sciences</i> , 2016 , 366, 116-124	3.2	11
128	SUMOylation of DISC1: a potential role in neural progenitor proliferation in the developing cortex. <i>Molecular Neuropsychiatry</i> , 2016 , 2, 20-27	4.9	3
127	Location, location, location: PDE4D5 function is directed by its unique N-terminal region. <i>Cellular Signalling</i> , 2016 , 28, 701-5	4.9	7
126	Interaction between integrin β and PDE4D regulates endothelial inflammatory signalling. <i>Nature Cell Biology</i> , 2016 , 18, 1043-53	23.4	62
125	Cardiac Hypertrophy Is Inhibited by a Local Pool of cAMP Regulated by Phosphodiesterase 2. <i>Circulation Research</i> , 2015 , 117, 707-19	15.7	75
124	Phosphorylation of ezrin on Thr567 is required for the synergistic activation of cell spreading by EPAC1 and protein kinase A in HEK293T cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 1749-58	4.9	12
123	The activity of cAMP-phosphodiesterase 4D7 (PDE4D7) is regulated by protein kinase A-dependent phosphorylation within its unique N-terminus. <i>FEBS Letters</i> , 2015 , 589, 750-5	3.8	14
122	Small heat shock protein 20 (Hsp20) facilitates nuclear import of protein kinase D 1 (PKD1) during cardiac hypertrophy. <i>Cell Communication and Signaling</i> , 2015 , 13, 16	7.5	20
121	The role and therapeutic targeting of β and β secretase in Alzheimer's disease. <i>Future Science OA</i> , 2015 , 1, FSO11	2.7	53
120	UCR1C is a novel activator of phosphodiesterase 4 (PDE4) long isoforms and attenuates cardiomyocyte hypertrophy. <i>Cellular Signalling</i> , 2015 , 27, 908-22	4.9	21
119	Human phosphodiesterase 4D7 (PDE4D7) expression is increased in TMPRSS2-ERG-positive primary prostate cancer and independently adds to a reduced risk of post-surgical disease progression. <i>British Journal of Cancer</i> , 2015 , 113, 1502-11	8.7	13
118	3 Angiotensin 1 α regulation of endothelin-1 system in pulmonary hypertension. <i>Heart</i> , 2015 , 101, A1.3-A4.1		
117	George Baillie on peptide array, a technique that transformed research on phosphodiesterases. <i>Future Science OA</i> , 2015 , 1, FSO27	2.7	3

116	Heat shock protein 20 (HSP20) is a novel substrate for protein kinase D1 (PKD1). <i>Cell Biochemistry and Function</i> , 2015 , 33, 421-6	4.2	7
115	Cytodynamics and endpoint selection for a reliable in vitro assessment of nanoneurotoxicity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 407-8	6	2
114	Dimerization of cAMP phosphodiesterase-4 (PDE4) in living cells requires interfaces located in both the UCR1 and catalytic unit domains. <i>Cellular Signalling</i> , 2015 , 27, 756-69	4.9	19
113	Acetylcholinesterase activity as a neurotoxicity marker within the context of experimentally-simulated hyperproliferation: An in vitro approach. <i>Journal of Natural Science, Biology and Medicine</i> , 2015 , 6, S98-S101	0.8	4
112	Adrenergic modulation of myocardial conduction velocity: Connexins vs. sodium current. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 77, 147-54	5.8	22
111	Real-time probing of amyloid self-assembly and inhibition using fluorescence self-quenching between neighbouring dyes. <i>Molecular BioSystems</i> , 2014 , 10, 34-44		27
110	PKA phosphorylation of p62/SQSTM1 regulates PB1 domain interaction partner binding. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014 , 1843, 2765-74	4.9	30
109	Phosphodiesterase 4 interacts with the 5-HT4(b) receptor to regulate cAMP signaling. <i>Cellular Signalling</i> , 2014 , 26, 2573-82	4.9	13
108	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> , 2014 , 26, 2446-59	4.9	41
107	A biosensor to monitor dynamic regulation and function of tumour suppressor PTEN in living cells. <i>Nature Communications</i> , 2014 , 5, 4431	17.4	17
106	Perihaematoma cytokine expression is a crucial component of intracerebral haemorrhage pathophysiology. <i>Neurological Sciences</i> , 2014 , 35, 1471-3	3.5	1
105	Compartmentalisation of second messenger signalling pathways. <i>Current Opinion in Genetics and Development</i> , 2014 , 27, 20-5	4.9	39
104	Mitotic activation of the DISC1-inducible cyclic AMP phosphodiesterase-4D9 (PDE4D9), through multi-site phosphorylation, influences cell cycle progression. <i>Cellular Signalling</i> , 2014 , 26, 1958-74	4.9	21
103	The cAMP phosphodiesterase-4D7 (PDE4D7) is downregulated in androgen-independent prostate cancer cells and mediates proliferation by compartmentalising cAMP at the plasma membrane of VCaP prostate cancer cells. <i>British Journal of Cancer</i> , 2014 , 110, 1278-87	8.7	30
102	The phosphorylation of Hsp20 enhances its association with amyloid- β to increase protection against neuronal cell death. <i>Molecular and Cellular Neurosciences</i> , 2014 , 61, 46-55	4.8	18
101	The cardioprotective role of small heat-shock protein 20. <i>Biochemical Society Transactions</i> , 2014 , 42, 2703-14	5.1	14
100	Targeted disruption of the heat shock protein 20-phosphodiesterase 4D (PDE4D) interaction protects against pathological cardiac remodelling in a mouse model of hypertrophy. <i>FEBS Open Bio</i> , 2014 , 4, 923-7	2.7	25
99	Eps8 controls Src- and FAK-dependent phenotypes in squamous carcinoma cells. <i>Journal of Cell Science</i> , 2014 , 127, 5303-16	5.3	18

98	Arrestin-dependent localization of phosphodiesterases. <i>Handbook of Experimental Pharmacology</i> , 2014 , 219, 293-307	3.2	4
97	Arrestin regulation of small GTPases. <i>Handbook of Experimental Pharmacology</i> , 2014 , 219, 375-85	3.2	1
96	Chemical informatics uncovers a new role for moexipril as a novel inhibitor of cAMP phosphodiesterase-4 (PDE4). <i>Biochemical Pharmacology</i> , 2013 , 85, 1297-305	6	14
95	The extent and the nature of the cholinergic contribution to the hepatic encephalopathy-induced cognitive impairment. <i>Free Radical Biology and Medicine</i> , 2013 , 65, 1516-1517	7.8	
94	Can acetylcholinesterase activity be considered as a reliable biomarker for the assessment of cadmium-induced neurotoxicity?. <i>Food and Chemical Toxicology</i> , 2013 , 56, 406-10	4.7	11
93	Specific interactions between Epac1, Arrestin2 and PDE4D5 regulate β adrenergic receptor subtype differential effects on cardiac hypertrophic signaling. <i>Cellular Signalling</i> , 2013 , 25, 970-80	4.9	37
92	Lanthanum-induced neurotoxicity: solving the riddle of its involvement in cognitive impairment?. <i>Archives of Toxicology</i> , 2013 , 87, 2031-2035	5.8	12
91	Targeting protein-protein interactions within the cyclic AMP signaling system as a therapeutic strategy for cardiovascular disease. <i>Future Medicinal Chemistry</i> , 2013 , 5, 451-64	4.1	43
90	Reciprocal regulation of PKA and Rac signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8531-6	11.5	39
89	Phosphodiesterase-8A binds to and regulates Raf-1 kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E1533-42	11.5	38
88	Cavin-1/PTRF as a new substrate of the SOCS3 E3 ubiquitin ligase complex. <i>FASEB Journal</i> , 2013 , 27, 782.1	0.9	
87	PKA phosphorylation of the small heat-shock protein Hsp20 enhances its cardioprotective effects. <i>Biochemical Society Transactions</i> , 2012 , 40, 210-4	5.1	48
86	Protein kinase D in the hypertrophy pathway. <i>Biochemical Society Transactions</i> , 2012 , 40, 287-9	5.1	10
85	cAMP: novel concepts in compartmentalised signalling. <i>Seminars in Cell and Developmental Biology</i> , 2012 , 23, 181-90	7.5	47
84	Gravin orchestrates protein kinase A and β -adrenergic receptor signaling critical for synaptic plasticity and memory. <i>Journal of Neuroscience</i> , 2012 , 32, 18137-49	6.6	47
83	Cyclic AMP-specific phosphodiesterase, PDE8A1, is activated by protein kinase A-mediated phosphorylation. <i>FEBS Letters</i> , 2012 , 586, 1631-7	3.8	23
82	The A-kinase-anchoring protein AKAP-Lbc facilitates cardioprotective PKA phosphorylation of Hsp20 on Ser(16). <i>Biochemical Journal</i> , 2012 , 446, 437-43	3.8	41
81	cAMP-Specific Phosphodiesterases: Modulation, Inhibition, and Activation 2012 , 1-35		1

80	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> , 2011 , 54, 3331-347	8.3	31
79	Integrating cardiac PIP3 and cAMP signaling through a PKA anchoring function of p110 β . <i>Molecular Cell</i> , 2011 , 42, 84-95	17.6	150
78	Disruption of the cyclic AMP phosphodiesterase-4 (PDE4)-HSP20 complex attenuates the β -agonist induced hypertrophic response in cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 872-83	5.8	82
77	Phosphorylation of cAMP-specific PDE4A5 (phosphodiesterase-4A5) by MK2 (MAPKAPK2) attenuates its activation through protein kinase A phosphorylation. <i>Biochemical Journal</i> , 2011 , 435, 755-759	3.8	48
76	The emerging role of HSP20 as a multifunctional protective agent. <i>Cellular Signalling</i> , 2011 , 23, 1447-54	4.9	61
75	β -Arrestin 1 inhibits the GTPase-activating protein function of ARHGAP21, promoting activation of RhoA following angiotensin II type 1A receptor stimulation. <i>Molecular and Cellular Biology</i> , 2011 , 31, 1066-75	4.8	64
74	The structure of the human RNase H2 complex defines key interaction interfaces relevant to enzyme function and human disease. <i>Journal of Biological Chemistry</i> , 2011 , 286, 10530-9	5.4	72
73	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> , 2011 , 286, 16285-96	5.4	40
72	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> , 2011 , 286, 9079-96	5.4	80
71	Distinct functional outputs of PTEN signalling are controlled by dynamic association with β -arrestins. <i>EMBO Journal</i> , 2011 , 30, 2557-68	13	50
70	Structure-function analysis of core STRIPAK Proteins: a signaling complex implicated in Golgi polarization. <i>Journal of Biological Chemistry</i> , 2011 , 286, 25065-75	5.4	95
69	Cross talk between phosphatidylinositol 3-kinase and cyclic AMP (cAMP)-protein kinase a signaling pathways at the level of a protein kinase B/ β -arrestin/cAMP phosphodiesterase 4 complex. <i>Molecular and Cellular Biology</i> , 2010 , 30, 1660-72	4.8	57
68	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> , 2010 , 285, 33614-22	5.4	72
67	Evolutionarily conserved role of calcineurin in phosphodegron-dependent degradation of phosphodiesterase 4D. <i>Molecular and Cellular Biology</i> , 2010 , 30, 4379-90	4.8	22
66	Inferring signaling pathway topologies from multiple perturbation measurements of specific biochemical species. <i>Science Signaling</i> , 2010 , 3, ra20	8.8	81
65	Selective SUMO modification of cAMP-specific phosphodiesterase-4D5 (PDE4D5) regulates the functional consequences of phosphorylation by PKA and ERK. <i>Biochemical Journal</i> , 2010 , 428, 55-65	3.8	33
64	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> , 2010 , 432, 575-84	3.8	6
63	Interaction with receptor for activated C-kinase 1 (RACK1) sensitizes the phosphodiesterase PDE4D5 towards hydrolysis of cAMP and activation by protein kinase C. <i>Biochemical Journal</i> , 2010 , 432, 207-16	3.8	26

62	Identification and characterization of small-molecule ligands that maintain pluripotency of human embryonic stem cells. <i>Biochemical Society Transactions</i> , 2010 , 38, 1058-61	5.1	12
61	A complex between FAK, RACK1, and PDE4D5 controls spreading initiation and cancer cell polarity. <i>Current Biology</i> , 2010 , 20, 1086-92	6.3	162
60	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> , 2010 , 22, 1576-96	4.9	28
59	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> , 2009 , 284, 11425-35	5.4	62
58	The cardiac IKs potassium channel macromolecular complex includes the phosphodiesterase PDE4D3. <i>Journal of Biological Chemistry</i> , 2009 , 284, 9140-6	5.4	108
57	Mdm2 directs the ubiquitination of beta-arrestin-sequestered cAMP phosphodiesterase-4D5. <i>Journal of Biological Chemistry</i> , 2009 , 284, 16170-16182	5.4	58
56	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> , 2009 , 284, 20263-74	5.4	79
55	A scanning peptide array approach uncovers association sites within the JNK/beta arrestin signalling complex. <i>FEBS Letters</i> , 2009 , 583, 3310-6	3.8	23
54	Sleep deprivation impairs cAMP signalling in the hippocampus. <i>Nature</i> , 2009 , 461, 1122-5	50.4	285
53	Compartmentalized signalling: spatial regulation of cAMP by the action of compartmentalized phosphodiesterases. <i>FEBS Journal</i> , 2009 , 276, 1790-9	5.7	161
52	The role of the PDE4D cAMP phosphodiesterase in the regulation of glucagon-like peptide-1 release. <i>British Journal of Pharmacology</i> , 2009 , 157, 633-44	8.6	35
51	In cardiac myocytes, cAMP elevation triggers the down-regulation of transcripts and promoter activity for cyclic AMP phosphodiesterase-4A10 (PDE4A10). <i>Cellular Signalling</i> , 2008 , 20, 2071-83	4.9	16
50	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> , 2008 , 20, 2356-69	4.9	41
49	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> , 2008 , 413, 51-60	3.8	37
48	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> , 2008 , 105, 12791-6	11.5	96
47	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> , 2008 , 283, 22952-61	5.4	62
46	Protein kinase A type I and type II define distinct intracellular signaling compartments. <i>Circulation Research</i> , 2008 , 103, 836-44	15.7	158
45	Human PDE4A8, a novel brain-expressed PDE4 cAMP-specific phosphodiesterase that has undergone rapid evolutionary change. <i>Biochemical Journal</i> , 2008 , 411, 361-9	3.8	23

44	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> , 2007 , 19, 2612-24	4.9	51
43	cAMP-Specific phosphodiesterase-4 enzymes in the cardiovascular system: a molecular toolbox for generating compartmentalized cAMP signaling. <i>Circulation Research</i> , 2007 , 100, 950-66	15.7	247
42	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> , 2007 , 18, 199-212	12.7	120
41	Dynamic regulation, desensitization, and cross-talk in discrete subcellular microdomains during beta2-adrenoceptor and prostanoid receptor cAMP signaling. <i>Journal of Biological Chemistry</i> , 2007 , 282, 34235-49	5.4	46
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