

George S Baillie

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187
papers

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95
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199
ext. papers

11,444
ext. citations

6.7
avg, IF

6.07
L-index

#	Paper	IF	Citations
187	DISC1 and PDE4B are interacting genetic factors in schizophrenia that regulate cAMP signaling. <i>Science</i> , 2005 , 310, 1187-91	33.3	542
186	Targeting of cyclic AMP degradation to beta 2-adrenergic receptors by beta-arrestins. <i>Science</i> , 2002 , 298, 834-6	33.3	428
185	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> , 2003 , 100, 940-5	11.5	322
184	Sleep deprivation impairs cAMP signalling in the hippocampus. <i>Nature</i> , 2009 , 461, 1122-5	50.4	285
183	Matrix polymers of Candida biofilms and their possible role in biofilm resistance to antifungal agents. <i>Journal of Antimicrobial Chemotherapy</i> , 2000 , 46, 397-403	5.1	281
182	Mixed species biofilms of Candida albicans and Staphylococcus epidermidis. <i>Journal of Medical Microbiology</i> , 2002 , 51, 344-349	3.2	265
181	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
180	The MAP kinase ERK2 inhibits the cyclic AMP-specific phosphodiesterase HSPDE4D3 by phosphorylating it at Ser579. <i>EMBO Journal</i> , 1999 , 18, 893-903	13	241
179	Role of dimorphism in the development of Candida albicans biofilms. <i>Journal of Medical Microbiology</i> , 1999 , 48, 671-679	3.2	230
178	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> , 2002 , 136, 421-33	8.6	198
177	ERK2 mitogen-activated protein kinase binding, phosphorylation, and regulation of the PDE4D cAMP-specific phosphodiesterases. The involvement of COOH-terminal docking sites and NH2-terminal UCR regions. <i>Journal of Biological Chemistry</i> , 2000 , 275, 16609-17	5.4	194
176	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> , 2005 , 280, 33178-89	5.4	172
175	Compartmentalisation of phosphodiesterases and protein kinase A: opposites attract. <i>FEBS Letters</i> , 2005 , 579, 3264-70	3.8	163
174	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
173	Compartmentalized signalling: spatial regulation of cAMP by the action of compartmentalized phosphodiesterases. <i>FEBS Journal</i> , 2009 , 276, 1790-9	5.7	161
172	Protein kinase A type I and type II define distinct intracellular signaling compartments. <i>Circulation Research</i> , 2008 , 103, 836-44	15.7	158
171	PGE(1) stimulation of HEK293 cells generates multiple contiguous domains with different [cAMP]: role of compartmentalized phosphodiesterases. <i>Journal of Cell Biology</i> , 2006 , 175, 441-51	7.3	155

170	Integrating cardiac PIP3 and cAMP signaling through a PKA anchoring function of p110. <i>Molecular Cell</i> , 2011 , 42, 84-95	17.6	150
169	Production of extracellular matrix by <i>Candida albicans</i> biofilms. <i>Journal of Medical Microbiology</i> , 1998 , 47, 253-6	3.2	136
168	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> , 2006 , 398, 23-36	3.8	133
167	Attenuation of the activity of the cAMP-specific phosphodiesterase PDE4A5 by interaction with the immunophilin XAP2. <i>Journal of Biological Chemistry</i> , 2003 , 278, 33351-63	5.4	132
166	Sleep deprivation causes memory deficits by negatively impacting neuronal connectivity in hippocampal area CA1. <i>ELife</i> , 2016 , 5,	8.9	128
165	TAPAS-1, a novel microdomain within the unique N-terminal region of the PDE4A1 cAMP-specific phosphodiesterase that allows rapid, Ca ²⁺ -triggered membrane association with selectivity for interaction with phosphatidic acid. <i>Journal of Biological Chemistry</i> , 2002 , 277, 28298-309	5.4	127
164	Sub-family selective actions in the ability of Erk2 MAP kinase to phosphorylate and regulate the activity of PDE4 cyclic AMP-specific phosphodiesterases. <i>British Journal of Pharmacology</i> , 2000 , 131, 811-9	8.6	126
163	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
162	Arrestin times for compartmentalised cAMP signalling and phosphodiesterase-4 enzymes. <i>Current Opinion in Cell Biology</i> , 2005 , 17, 129-34	9	110
161	TCR- and CD28-mediated recruitment of phosphodiesterase 4 to lipid rafts potentiates TCR signaling. <i>Journal of Immunology</i> , 2004 , 173, 4847-58	5.3	109
160	The cardiac IKs potassium channel macromolecular complex includes the phosphodiesterase PDE4D3. <i>Journal of Biological Chemistry</i> , 2009 , 284, 9140-6	5.4	108
159	p75 neurotrophin receptor regulates tissue fibrosis through inhibition of plasminogen activation via a PDE4/cAMP/PKA pathway. <i>Journal of Cell Biology</i> , 2007 , 177, 1119-32	7.3	102
158	Therapeutic targeting of 3P5Pcyclic nucleotide phosphodiesterases: inhibition and beyond. <i>Nature Reviews Drug Discovery</i> , 2019 , 18, 770-796	64.1	100
157	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
156	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
155	The unique amino-terminal region of the PDE4D5 cAMP phosphodiesterase isoform confers preferential interaction with beta-arrestins. <i>Journal of Biological Chemistry</i> , 2003 , 278, 49230-8	5.4	86
154	Disruption of the cyclic AMP phosphodiesterase-4 (PDE4)-HSP20 complex attenuates the agonist induced hypertrophic response in cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 872-83	5.8	82
153	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> , 2007 , 404, 71-80	3.8	82

152	Inferring signaling pathway topologies from multiple perturbation measurements of specific biochemical species. <i>Science Signaling</i> , 2010 , 3, ra20	8.8	81
151	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
150	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
149	Iron-limited biofilms of <i>Candida albicans</i> and their susceptibility to amphotericin B. <i>Antimicrobial Agents and Chemotherapy</i> , 1998 , 42, 2146-9	5.9	76
148	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
147	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> , 2004 , 287, L332-43	5.8	75
146	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
145	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
144	Remodelling of the PDE4 cAMP phosphodiesterase isoform profile upon monocyte-macrophage differentiation of human U937 cells. <i>British Journal of Pharmacology</i> , 2004 , 142, 339-51	8.6	72
143	Phorbol 12-myristate 13-acetate triggers the protein kinase A-mediated phosphorylation and activation of the PDE4D5 cAMP phosphodiesterase in human aortic smooth muscle cells through a route involving extracellular signal regulated kinase (ERK). <i>Molecular Pharmacology</i> , 2001 , 60, 1100-11	4.3	69
142	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
141	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
140	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
139	Interaction between integrin β and PDE4D regulates endothelial inflammatory signalling. <i>Nature Cell Biology</i> , 2016 , 18, 1043-53	23.4	62
138	The emerging role of HSP20 as a multifunctional protective agent. <i>Cellular Signalling</i> , 2011 , 23, 1447-54	4.9	61
137	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
136	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
135	Mdm2 directs the ubiquitination of beta-arrestin-sequestered cAMP phosphodiesterase-4D5. <i>Journal of Biological Chemistry</i> , 2009 , 284, 16170-16182	5.4	58

134	PDE2A2 regulates mitochondria morphology and apoptotic cell death via local modulation of cAMP/PKA signalling. <i>ELife</i> , 2017 , 6,	8.9	57
133	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> , 2010 , 30, 1660-72	4.8	57
132	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
131	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
130	¹ H 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
129	Distinct functional outputs of PTEN signalling are controlled by dynamic association with β arrestins. <i>EMBO Journal</i> , 2011 , 30, 2557-68	13	50
128	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> , 2007 , 322, 600-9	4.7	49
127	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
126	Phosphorylation of cAMP-specific PDE4A5 (phosphodiesterase-4A5) by MK2 (MAPKAPK2) attenuates its activation through protein kinase A phosphorylation. <i>Biochemical Journal</i> , 2011 , 435, 755-69	3.8	48
125	cAMP: novel concepts in compartmentalised signalling. <i>Seminars in Cell and Developmental Biology</i> , 2012 , 23, 181-90	7.5	47
124	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
123	Molecular cloning and subcellular distribution of the novel PDE4B4 cAMP-specific phosphodiesterase isoform. <i>Biochemical Journal</i> , 2003 , 370, 429-38	3.8	47
122	Amyloid β synaptotoxicity is Wnt-PCP dependent and blocked by fasudil. <i>Alzheimer's and Dementia</i> , 2018 , 14, 306-317	1.2	46
121	Spatial organisation of AKAP18 and PDE4 isoforms in renal collecting duct principal cells. <i>European Journal of Cell Biology</i> , 2006 , 85, 673-8	6.1	46
120	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
119	A role for APP in Wnt signalling links synapse loss with β amyloid production. <i>Translational Psychiatry</i> , 2018 , 8, 179	8.6	44
118	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
117	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

116	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
115	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
114	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
113	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
112	Compartmentalisation of second messenger signalling pathways. <i>Current Opinion in Genetics and Development</i> , 2014 , 27, 20-5	4.9	39
111	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
110	Specific Inhibition of Phosphodiesterase-4B Results in Anxiolysis and Facilitates Memory Acquisition. <i>Neuropsychopharmacology</i> , 2016 , 41, 1080-92	8.7	38
109	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
108	PDE4-Mediated cAMP Signalling. <i>Journal of Cardiovascular Development and Disease</i> , 2018 , 5,	4.2	38
107	Specific interactions between Epac1, β 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
106	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
105	cAMP-specific phosphodiesterase-4D5 (PDE4D5) provides a paradigm for understanding the unique non-redundant roles that PDE4 isoforms play in shaping compartmentalized cAMP cell signalling. <i>Biochemical Society Transactions</i> , 2007 , 35, 938-41	5.1	36
104	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
103	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
102	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> , 2006 , 394, 427-35	3.8	34
101	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
100	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> , 2003 , 15, 955-71	4.9	33
99	p75 Neurotrophin Receptor Regulates Energy Balance in Obesity. <i>Cell Reports</i> , 2016 , 14, 255-68	10.6	32

98	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, 3331-47	8.3	31
97	Compartmentalized PDE4A5 Signaling Impairs Hippocampal Synaptic Plasticity and Long-Term Memory. <i>Journal of Neuroscience</i> , 2016 , 36, 8936-46	6.6	30
96	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
95	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
94	cAMP phosphodiesterase-4A1 (PDE4A1) has provided the paradigm for the intracellular targeting of phosphodiesterases, a process that underpins compartmentalized cAMP signalling. <i>Biochemical Society Transactions</i> , 2006 , 34, 504-9	5.1	30
93	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
92	Real-time probing of β -amyloid self-assembly and inhibition using fluorescence self-quenching between neighbouring dyes. <i>Molecular BioSystems</i> , 2014 , 10, 34-44		27
91	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
90	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
89	Beta-arrestin-recruited phosphodiesterase-4 desensitizes the AKAP79/PKA-mediated switching of beta2-adrenoceptor signalling to activation of ERK. <i>Biochemical Society Transactions</i> , 2005 , 33, 1333-6	5.1	26
88	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
87	Ambra1 spatially regulates Src activity and Src/FAK-mediated cancer cell invasion via trafficking networks. <i>ELife</i> , 2017 , 6,	8.9	24
86	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
85	Cyclic AMP-specific phosphodiesterase, PDE8A1, is activated by protein kinase A-mediated phosphorylation. <i>FEBS Letters</i> , 2012 , 586, 1631-7	3.8	23
84	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
83	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
82	FBXW7 regulates DISC1 stability via the ubiquitin-proteasome system. <i>Molecular Psychiatry</i> , 2018 , 23, 1278-1286	15.1	22
81	β -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

80	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
79	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
78	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
77	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
76	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
75	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> , 2004 , 380, 371-84	3.8	21
74	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
73	Reduced PDE4 expression and activity contributes to enhanced catecholamine-induced cAMP accumulation in adipocytes from FOXC2 transgenic mice. <i>FEBS Letters</i> , 2006 , 580, 4126-30	3.8	20
72	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
71	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
70	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
69	Eps8 controls Src- and FAK-dependent phenotypes in squamous carcinoma cells. <i>Journal of Cell Science</i> , 2014 , 127, 5303-16	5.3	18
68	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
67	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, 17190-17207	5.4	17
66	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
65	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
64	PTEN controls glandular morphogenesis through a juxtamembrane β -Arrestin1/ARHGAP21 scaffolding complex. <i>ELife</i> , 2017 , 6,	8.9	15
63	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

62	Understanding PDE4 β function in Alzheimer β disease; a target for novel therapeutic approaches. <i>Biochemical Society Transactions</i> , 2019 , 47, 1557-1565	5.1	15
61	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
60	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
59	The cardioprotective role of small heat-shock protein 20. <i>Biochemical Society Transactions</i> , 2014 , 42, 2705-31	5.1	14
58	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
57	Phosphodiesterase 4 interacts with the 5-HT ₄ (b) receptor to regulate cAMP signaling. <i>Cellular Signalling</i> , 2014 , 26, 2573-82	4.9	13
56	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
55	Lanthanum-induced neurotoxicity: solving the riddle of its involvement in cognitive impairment?. <i>Archives of Toxicology</i> , 2013 , 87, 2031-2035	5.8	12
54	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
53	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> , 2005 , 307, 225-37	1.4	12
52	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
51	Phosphodiesterase 4B: Master Regulator of Brain Signaling. <i>Cells</i> , 2020 , 9,	7.9	11
50	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
49	Non-genetic therapeutic approaches to Canavan disease. <i>Journal of the Neurological Sciences</i> , 2016 , 366, 116-124	3.2	11
48	RAB40C regulates RACK1 stability via the ubiquitin-proteasome system. <i>Future Science OA</i> , 2018 , 4, FSO317	3.7	10
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