

# George S Baillie

## List of Publications by Year in descending order

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193  
papers

12,388  
citations

23879

60  
h-index

34195

103  
g-index

199  
all docs

199  
docs citations

199  
times ranked

13272  
citing authors

#	ARTICLE	IF	CITATIONS
1	DISC1 and PDE4B Are Interacting Genetic Factors in Schizophrenia That Regulate cAMP Signaling. <i>Science</i> , 2005, 310, 1187-1191.	6.0	605
2	Targeting of Cyclic AMP Degradation to beta 2-Adrenergic Receptors by beta -Arrestins. <i>Science</i> , 2002, 298, 834-836.	6.0	476
3	̂-Arrestin-mediated PDE4 cAMP phosphodiesterase recruitment regulates ̂-adrenoceptor switching from Gs to Gi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 940-945.	3.3	356
4	Sleep deprivation impairs cAMP signalling in the hippocampus. <i>Nature</i> , 2009, 461, 1122-1125.	13.7	339
5	Matrix polymers of <i>Candida</i> biofilms and their possible role in biofilm resistance to antifungal agents. <i>Journal of Antimicrobial Chemotherapy</i> , 2000, 46, 397-403.	1.3	315
6	Mixed species biofilms of <i>Candida albicans</i> and <i>Staphylococcus epidermidis</i> . <i>Journal of Medical Microbiology</i> , 2002, 51, 344-349.	0.7	310
7	cAMP-Specific Phosphodiesterase-4 Enzymes in the Cardiovascular System. <i>Circulation Research</i> , 2007, 100, 950-966.	2.0	283
8	The MAP kinase ERK2 inhibits the cyclic AMP-specific phosphodiesterase HSPDE4D3 by phosphorylating it at Ser579. <i>EMBO Journal</i> , 1999, 18, 893-903.	3.5	269
9	Role of dimorphism in the development of <i>Candida albicans</i> biofilms. <i>Journal of Medical Microbiology</i> , 1999, 48, 671-679.	0.7	253
10	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, 421-433.	2.7	229
11	ERK2 Mitogen-activated Protein Kinase Binding, Phosphorylation, and Regulation of the PDE4D cAMP-specific Phosphodiesterases. <i>Journal of Biological Chemistry</i> , 2000, 275, 16609-16617.	1.6	215
12	A Complex between FAK, RACK1, and PDE4D5 Controls Spreading Initiation and Cancer Cell Polarity. <i>Current Biology</i> , 2010, 20, 1086-1092.	1.8	214
13	Therapeutic targeting of 3â€²,5â€²-cyclic nucleotide phosphodiesterases: inhibition and beyond. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 770-796.	21.5	205
14	Compartmentalized signalling: spatial regulation of cAMP by the action of compartmentalized phosphodiesterases. <i>FEBS Journal</i> , 2009, 276, 1790-1799.	2.2	192
15	Sleep deprivation causes memory deficits by negatively impacting neuronal connectivity in hippocampal area CA1. <i>ELife</i> , 2016, 5, .	2.8	191
16	Compartmentalisation of phosphodiesterases and protein kinase A: opposites attract. <i>FEBS Letters</i> , 2005, 579, 3264-3270.	1.3	186
17	RNA Silencing Identifies PDE4D5 as the Functionally Relevant cAMP Phosphodiesterase Interacting with ̂2-Arrestin to Control the Protein Kinase A/AKAP79-mediated Switching of the ̂2-Adrenergic Receptor to Activation of ERK in HEK293B2 Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 33178-33189.	1.6	185
18	Protein Kinase A Type I and Type II Define Distinct Intracellular Signaling Compartments. <i>Circulation Research</i> , 2008, 103, 836-844.	2.0	185

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19	Integrating Cardiac PIP3 and cAMP Signaling through a PKA Anchoring Function of p110 <sup>β</sup> . <i>Molecular Cell</i> , 2011, 42, 84-95.	4.5	174
20	PGE1 stimulation of HEK293 cells generates multiple contiguous domains with different [cAMP]: role of compartmentalized phosphodiesterases. <i>Journal of Cell Biology</i> , 2006, 175, 441-451.	2.3	171
21	Production of extracellular matrix by <i>Candida albicans</i> biofilms. <i>Journal of Medical Microbiology</i> , 1998, 47, 253-256.	0.7	164
22	Attenuation of the Activity of the cAMP-specific Phosphodiesterase PDE4A5 by Interaction with the Immunophilin XAP2. <i>Journal of Biological Chemistry</i> , 2003, 278, 33351-33363.	1.6	149
23	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, 811-819.	2.7	146
24	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> , 2002, 277, 28298-28309.	1.6	145
25	Scanning peptide array analyses identify overlapping binding sites for the signalling scaffold proteins, $\beta$ 2-arrestin and RACK1, in cAMP-specific phosphodiesterase PDE4D5. <i>Biochemical Journal</i> , 2006, 398, 23-36.	1.7	144
26	Structure-Function Analysis of Core STRIPAK Proteins. <i>Journal of Biological Chemistry</i> , 2011, 286, 25065-25075.	1.6	136
27	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.	3.0	134
28	TCR- and CD28-Mediated Recruitment of Phosphodiesterase 4 to Lipid Rafts Potentiates TCR Signaling. <i>Journal of Immunology</i> , 2004, 173, 4847-4858.	0.4	123
29	Arrestin times for compartmentalised cAMP signalling and phosphodiesterase-4 enzymes. <i>Current Opinion in Cell Biology</i> , 2005, 17, 129-134.	2.6	120
30	The Cardiac IKs Potassium Channel Macromolecular Complex Includes the Phosphodiesterase PDE4D3. <i>Journal of Biological Chemistry</i> , 2009, 284, 9140-9146.	1.6	118
31	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, 1119-1132.	2.3	116
32	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, 12791-12796.	3.3	109
33	Cardiac Hypertrophy Is Inhibited by a Local Pool of cAMP Regulated by Phosphodiesterase 2. <i>Circulation Research</i> , 2015, 117, 707-719.	2.0	105
34	Inferring Signaling Pathway Topologies from Multiple Perturbation Measurements of Specific Biochemical Species. <i>Science Signaling</i> , 2010, 3, ra20.	1.6	101
35	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-L343.	1.3	100
36	The Unique Amino-terminal Region of the PDE4D5 cAMP Phosphodiesterase Isoform Confers Preferential Interaction with $\beta$ 2-Arrestins. <i>Journal of Biological Chemistry</i> , 2003, 278, 49230-49238.	1.6	97

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37	Disruption of the cyclic AMP phosphodiesterase-4 (PDE4)â€“HSP20 complex attenuates the Î²-agonist induced hypertrophic response in cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 872-883.	0.9	94
38	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, 10530-10539.	1.6	94
39	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, 9079-9096.	1.6	92
40	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, 20263-20274.	1.6	89
41	Mapping binding sites for the PDE4D5 cAMP-specific phosphodiesterase to the N- and C-domains of Î²-arrestin using spot-immobilized peptide arrays. <i>Biochemical Journal</i> , 2007, 404, 71-80.	1.7	88
42	Iron-Limited Biofilms of <i>Candida albicans</i> and Their Susceptibility to Amphotericin B. <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42, 2146-2149.	1.4	87
43	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, 7786-7791.	3.3	86
44	PDE2A2 regulates mitochondria morphology and apoptotic cell death via local modulation of cAMP/PKA signalling. <i>ELife</i> , 2017, 6, .	2.8	82
45	Remodelling of the PDE4 cAMP phosphodiesterase isoform profile upon monocyte-macrophage differentiation of human U937 cells. <i>British Journal of Pharmacology</i> , 2004, 142, 339-351.	2.7	81
46	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, 33614-33622.	1.6	81
47	Amyloid Î² synaptotoxicity is Wntâ€“PCP dependent and blocked by fasudil. <i>Alzheimer's and Dementia</i> , 2018, 14, 306-317.	0.4	81
48	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.	1.6	80
49	Interaction between integrin Î±5 and PDE4D regulates endothelial inflammatory signalling. <i>Nature Cell Biology</i> , 2016, 18, 1043-1053.	4.6	79
50	A high-fat diet promotes depression-like behavior in mice by suppressing hypothalamic PKA signaling. <i>Translational Psychiatry</i> , 2019, 9, 141.	2.4	77
51	The role and therapeutic targeting of Î±-, Î²- and Î³-secretase in Alzheimer's disease. <i>Future Science OA</i> , 2015, 1, FSO11.	0.9	75
52	A role for APP in Wnt signalling links synapse loss with Î²-amyloid production. <i>Translational Psychiatry</i> , 2018, 8, 179.	2.4	74
53	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.	7.7	73
54	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, 1100-1111.	1.0	71

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55	Tyrosine 302 in RACK1 Is Essential for Insulin-like Growth Factor-I-mediated Competitive Binding of PP2A and $\beta$ 1 Integrin and for Tumor Cell Proliferation and Migration. <i>Journal of Biological Chemistry</i> , 2008, 283, 22952-22961.	1.6	67
56	The emerging role of HSP20 as a multifunctional protective agent. <i>Cellular Signalling</i> , 2011, 23, 1447-1454.	1.7	67
57	$\beta$ -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, 1066-1075.	1.1	67
58	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, 600-609.	1.3	65
59	MEK1 Binds Directly to $\beta$ -Arrestin1, Influencing Both Its Phosphorylation by ERK and the Timing of Its Isoprenaline-stimulated Internalization. <i>Journal of Biological Chemistry</i> , 2009, 284, 11425-11435.	1.6	65
60	Phosphorylation of cAMP-specific PDE4A5 (phosphodiesterase-4A5) by MK2 (MAPKAPK2) attenuates its activation through protein kinase A phosphorylation. <i>Biochemical Journal</i> , 2011, 435, 755-769.	1.7	63
61	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, 1660-1672.	1.1	61
62	Mdm2 Directs the Ubiquitination of $\beta$ -Arrestin-sequestered cAMP Phosphodiesterase-4D5. <i>Journal of Biological Chemistry</i> , 2009, 284, 16170-16182.	1.6	59
63	cAMP: Novel concepts in compartmentalised signalling. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 181-190.	2.3	59
64	Distinct functional outputs of PTEN signalling are controlled by dynamic association with $\beta$ -arrestins. <i>EMBO Journal</i> , 2011, 30, 2557-2568.	3.5	58
65	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, 2446-2459.	1.7	56
66	Gravin Orchestrates Protein Kinase A and $\beta$ 2-Adrenergic Receptor Signaling Critical for Synaptic Plasticity and Memory. <i>Journal of Neuroscience</i> , 2012, 32, 18137-18149.	1.7	54
67	PDE4-Mediated cAMP Signalling. <i>Journal of Cardiovascular Development and Disease</i> , 2018, 5, 8.	0.8	54
68	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.	3.3	54
69	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, 2612-2624.	1.7	53
70	Specific Inhibition of Phosphodiesterase-4B Results in Anxiolysis and Facilitates Memory Acquisition. <i>Neuropsychopharmacology</i> , 2016, 41, 1080-1092.	2.8	53
71	Molecular cloning and subcellular distribution of the novel PDE4B4 cAMP-specific phosphodiesterase isoform. <i>Biochemical Journal</i> , 2003, 370, 429-438.	1.7	52
72	Spatial organisation of AKAP18 and PDE4 isoforms in renal collecting duct principal cells. <i>European Journal of Cell Biology</i> , 2006, 85, 673-678.	1.6	52

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73	PKA phosphorylation of the small heat-shock protein Hsp20 enhances its cardioprotective effects. <i>Biochemical Society Transactions</i> , 2012, 40, 210-214.	1.6	52
74	Compartmentalized PDE4A5 Signaling Impairs Hippocampal Synaptic Plasticity and Long-Term Memory. <i>Journal of Neuroscience</i> , 2016, 36, 8936-8946.	1.7	52
75	Dynamic Regulation, Desensitization, and Cross-talk in Discrete Subcellular Microdomains during $\beta^2$ -Adrenoceptor and Prostanoid Receptor cAMP Signaling. <i>Journal of Biological Chemistry</i> , 2007, 282, 34235-34249.	1.6	51
76	The role of the PDE4D cAMP phosphodiesterase in the regulation of glucagon-like peptide-1 release. <i>British Journal of Pharmacology</i> , 2009, 157, 633-644.	2.7	50
77	Compartmentalisation of second messenger signalling pathways. <i>Current Opinion in Genetics and Development</i> , 2014, 27, 20-25.	1.5	50
78	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.	3.3	49
79	Specific interactions between Epac1, $\beta^2$ -arrestin2 and PDE4D5 regulate $\beta^2$ -adrenergic receptor subtype differential effects on cardiac hypertrophic signaling. <i>Cellular Signalling</i> , 2013, 25, 970-980.	1.7	48
80	Targeting protein-protein interactions within the cyclic AMP signaling system as a therapeutic strategy for cardiovascular disease. <i>Future Medicinal Chemistry</i> , 2013, 5, 451-464.	1.1	47
81	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, 16285-16296.	1.6	46
82	The A-kinase-anchoring protein AKAP-Lbc facilitates cardioprotective PKA phosphorylation of Hsp20 on Ser16. <i>Biochemical Journal</i> , 2012, 446, 437-443.	1.7	42
83	Reciprocal regulation of PKA and Rac signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8531-8536.	3.3	42
84	p75 Neurotrophin Receptor Regulates Energy Balance in Obesity. <i>Cell Reports</i> , 2016, 14, 255-268.	2.9	42
85	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, 2356-2369.	1.7	41
86	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, 1278-1287.	2.9	41
87	Mutations of $\beta^2$ -arrestin 2 that limit self-association also interfere with interactions with the $\beta^2$ -adrenoceptor and the ERK1/2 MAPKs: implications for $\beta^2$ -adrenoceptor signalling via the ERK1/2 MAPKs. <i>Biochemical Journal</i> , 2008, 413, 51-60.	1.7	40
88	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, 938-941.	1.6	39
89	Molecular mechanism of $G_{\beta\gamma}$ activation by non-GPCR proteins with a $G_{\beta\gamma}$ -Binding and Activating motif. <i>Nature Communications</i> , 2017, 8, 15163.	5.8	39
90	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, 955-971.	1.7	37

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91	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, 1576-1596.	1.7	37
92	RACK(1) to the future – a historical perspective. <i>Cell Communication and Signaling</i> , 2013, 11, 53.	2.7	37
93	Real-time probing of $\beta$ -amyloid self-assembly and inhibition using fluorescence self-quenching between neighbouring dyes. <i>Molecular BioSystems</i> , 2014, 10, 34-44.	2.9	37
94	PKA phosphorylation of p62/SQSTM1 regulates PB1 domain interaction partner binding. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2765-2774.	1.9	37
95	AKAP95 Organizes a Nuclear Microdomain to Control Local cAMP for Regulating Nuclear PKA. <i>Cell Chemical Biology</i> , 2019, 26, 885-891.e4.	2.5	37
96	Understanding PDE4's function in Alzheimer's disease; a target for novel therapeutic approaches. <i>Biochemical Society Transactions</i> , 2019, 47, 1557-1565.	1.6	36
97	Phosphodiesterase 4B: Master Regulator of Brain Signaling. <i>Cells</i> , 2020, 9, 1254.	1.8	36
98	Phosphodiesterase-4 influences the PKA phosphorylation status and membrane translocation of G-protein receptor kinase 2 (GRK2) in HEK-293T cells and cardiac myocytes. <i>Biochemical Journal</i> , 2006, 394, 427-435.	1.7	35
99	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.	1.7	35
100	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, 3331-3347.	2.9	34
101	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, 756-769.	1.7	34
102	$\beta$ -Arrestin-recruited phosphodiesterase-4 desensitizes the AKAP79/PKA-mediated switching of $\beta$ -adrenoceptor signalling to activation of ERK. <i>Biochemical Society Transactions</i> , 2005, 33, 1333.	1.6	33
103	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, 504-509.	1.6	33
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, 1958-1974.	1.7	33
105	Peptide array-based screening reveals a large number of proteins interacting with the ankyrin-repeat domain of the zDHHC17 S-acyltransferase. <i>Journal of Biological Chemistry</i> , 2017, 292, 17190-17202.	1.6	33
106	Ambra1 spatially regulates Src activity and Src/FAK-mediated cancer cell invasion via trafficking networks. <i>ELife</i> , 2017, 6, .	2.8	32
107	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.	2.9	32
108	Cyclic AMP-specific phosphodiesterase, PDE8A1, is activated by protein kinase A-mediated phosphorylation. <i>FEBS Letters</i> , 2012, 586, 1631-1637.	1.3	31

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109	FBXW7 regulates DISC1 stability via the ubiquitin-proteasome system. <i>Molecular Psychiatry</i> , 2018, 23, 1278-1286.	4.1	31
110	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, 923-927.	1.0	30
111	UCR1C is a novel activator of phosphodiesterase 4 (PDE4) long isoforms and attenuates cardiomyocyte hypertrophy. <i>Cellular Signalling</i> , 2015, 27, 908-922.	1.7	29
112	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, 207-219.	1.7	28
113	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.	2.7	28
114	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.	1.7	27
115	Human PDE4A8, a novel brain-expressed PDE4 cAMP-specific phosphodiesterase that has undergone rapid evolutionary change. <i>Biochemical Journal</i> , 2008, 411, 361-369.	1.7	26
116	Evolutionarily Conserved Role of Calcineurin in Phosphodegron-Dependent Degradation of Phosphodiesterase 4D. <i>Molecular and Cellular Biology</i> , 2010, 30, 4379-4390.	1.1	26
117	Missense mutation in DISC1 C-terminal coiled-coil has GSK3 $\beta$ signaling and sex-dependent behavioral effects in mice. <i>Scientific Reports</i> , 2016, 6, 18748.	1.6	26
118	$\beta$ -Adrenergic modulation of myocardial conduction velocity: Connexins vs. sodium current. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 77, 147-154.	0.9	25
119	Interaction of suppressor of cytokine signalling 3 with cavin-1 links SOCS3 function and cavin-1 stability. <i>Nature Communications</i> , 2018, 9, 168.	5.8	25
120	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, 371-384.	1.7	24
121	A scanning peptide array approach uncovers association sites within the JNK/ $\beta$ arrestin signalling complex. <i>FEBS Letters</i> , 2009, 583, 3310-3316.	1.3	23
122	The enigmatic helicase DHX9 and its association with the hallmarks of cancer. <i>Future Science OA</i> , 2021, 7, FSO650.	0.9	23
123	Epidermal Growth Factor Receptor substrate 8 (Eps8) controls Src/FAK-dependent phenotypes in squamous carcinoma cells. <i>Journal of Cell Science</i> , 2014, 127, 5303-16.	1.2	21
124	A biosensor to monitor dynamic regulation and function of tumour suppressor PTEN in living cells. <i>Nature Communications</i> , 2014, 5, 4431.	5.8	21
125	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.	0.8	21
126	Reduced PDE4 expression and activity contributes to enhanced catecholamine-induced cAMP accumulation in adipocytes from FOXC2 transgenic mice. <i>FEBS Letters</i> , 2006, 580, 4126-4130.	1.3	20



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127	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, 1502-1511.	2.9	20
128	A biochemical and genetic discovery pipeline identifies PLC $\beta$ 4b as a nonreceptor activator of heterotrimeric G-proteins. <i>Journal of Biological Chemistry</i> , 2018, 293, 16964-16983.	1.6	20
129	The phosphorylation of Hsp20 enhances its association with amyloid- $\beta^2$ to increase protection against neuronal cell death. <i>Molecular and Cellular Neurosciences</i> , 2014, 61, 46-55.	1.0	19
130	PTEN controls glandular morphogenesis through a juxtamembrane $\beta^2$ -Arrestin1/ARHGAP21 scaffolding complex. <i>ELife</i> , 2017, 6, .	2.8	19
131	The activity of cAMP-dependent phosphodiesterase 4D7 (PDE4D7) is regulated by protein kinase A-dependent phosphorylation within its unique N-terminus. <i>FEBS Letters</i> , 2015, 589, 750-755.	1.3	18
132	RAB40C regulates RACK1 stability via the ubiquitin-proteasome system. <i>Future Science OA</i> , 2018, 4, FSO317.	0.9	18
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