## George S Baillie

List of Publications by Year in descending order

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20817 30087 12,388 193 60 103 citations h-index g-index papers 199 199 199 12122 docs citations times ranked citing authors all docs

| #  | Article   | IF   | Citations |
|----|---|------|-----------|
| 1  | DISC1 and PDE4B Are Interacting Genetic Factors in Schizophrenia That Regulate cAMP Signaling. Science, 2005, 310, 1187-1191.   | 12.6 | 605       |
| 2  | Targeting of Cyclic AMP Degradation to beta 2-Adrenergic Receptors by beta -Arrestins. Science, 2002, 298, 834-836.   | 12.6 | 476       |
| 3  | Â-Arrestin-mediated PDE4 cAMP phosphodiesterase recruitment regulates Â-adrenoceptor switching from Gs to Gi. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 940-945.  | 7.1  | 356       |
| 4  | Sleep deprivation impairs cAMP signalling in the hippocampus. Nature, 2009, 461, 1122-1125.   | 27.8 | 339       |
| 5  | Matrix polymers of Candida biofilms and their possible role in biofilm resistance to antifungal agents.<br>Journal of Antimicrobial Chemotherapy, 2000, 46, 397-403.  | 3.0  | 315       |
| 6  | Mixed species biofilms of Candida albicans and Staphylococcus epidermidis. Journal of Medical Microbiology, 2002, 51, 344-349.  | 1.8  | 310       |
| 7  | cAMP-Specific Phosphodiesterase-4 Enzymes in the Cardiovascular System. Circulation Research, 2007, 100, 950-966.   | 4.5  | 283       |
| 8  | The MAP kinase ERK2 inhibits the cyclic AMP-specific phosphodiesterase HSPDE4D3 by phosphorylating it at Ser579. EMBO Journal, 1999, 18, 893-903.   | 7.8  | 269       |
| 9  | Role of dimorphism in the development of Candida albicans biofilms. Journal of Medical Microbiology, 1999, 48, 671-679.   | 1.8  | 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). British Journal of Pharmacology, 2002, 136, 421-433.  | 5.4  | 229       |
| 11 | ERK2 Mitogen-activated Protein Kinase Binding, Phosphorylation, and Regulation of the PDE4D cAMP-specific Phosphodiesterases. Journal of Biological Chemistry, 2000, 275, 16609-16617.  | 3.4  | 215       |
| 12 | A Complex between FAK, RACK1, and PDE4D5 Controls Spreading Initiation and Cancer Cell Polarity. Current Biology, 2010, 20, 1086-1092.  | 3.9  | 214       |
| 13 | Therapeutic targeting of 3′,5′-cyclic nucleotide phosphodiesterases: inhibition and beyond. Nature Reviews Drug Discovery, 2019, 18, 770-796.   | 46.4 | 205       |
| 14 | Compartmentalized signalling: spatial regulation of cAMP by the action of compartmentalized phosphodiesterases. FEBS Journal, 2009, 276, 1790-1799.   | 4.7  | 192       |
| 15 | Sleep deprivation causes memory deficits by negatively impacting neuronal connectivity in hippocampal area CA1. ELife, 2016, 5, .   | 6.0  | 191       |
| 16 | Compartmentalisation of phosphodiesterases and protein kinase A: opposites attract. FEBS Letters, 2005, 579, 3264-3270.   | 2.8  | 186       |
| 17 | RNA Silencing Identifies PDE4D5 as the Functionally Relevant cAMP Phosphodiesterase Interacting with Î <sup>2</sup> Arrestin to Control the Protein Kinase A/AKAP79-mediated Switching of the Î <sup>2</sup> 2-Adrenergic Receptor to Activation of ERK in HEK293B2 Cells. Journal of Biological Chemistry, 2005, 280, 33178-33189. | 3.4  | 185       |
| 18 | Protein Kinase A Type I and Type II Define Distinct Intracellular Signaling Compartments. Circulation Research, 2008, 103, 836-844.   | 4.5  | 185       |

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|----|---|-------------|-----------|
| 19 | Integrating Cardiac PIP3 and cAMP Signaling through a PKA Anchoring Function of p $110\hat{l}^3$ . Molecular Cell, 2011, 42, 84-95.   | 9.7         | 174       |
| 20 | PGE1 stimulation of HEK293 cells generates multiple contiguous domains with different [cAMP]: role of compartmentalized phosphodiesterases. Journal of Cell Biology, 2006, 175, 441-451.  | <b>5.</b> 2 | 171       |
| 21 | Production of extracellular matrix by Candida albicans biofilms. Journal of Medical Microbiology, 1998, 47, 253-256.  | 1.8         | 164       |
| 22 | Attenuation of the Activity of the cAMP-specific Phosphodiesterase PDE4A5 by Interaction with the Immunophilin XAP2. Journal of Biological Chemistry, 2003, 278, 33351-33363.   | 3.4         | 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. British Journal of Pharmacology, 2000, 131, 811-819.  | 5.4         | 146       |
| 24 | TAPAS-1, a Novel Microdomain within the Unique N-terminal Region of the PDE4A1 cAMP-specific Phosphodiesterase That Allows Rapid, Ca2+-triggered Membrane Association with Selectivity for Interaction with Phosphatidic Acid. Journal of Biological Chemistry, 2002, 277, 28298-28309. | 3.4         | 145       |
| 25 | Scanning peptide array analyses identify overlapping binding sites for the signalling scaffold proteins, β-arrestin and RACK1, in cAMP-specific phosphodiesterase PDE4D5. Biochemical Journal, 2006, 398, 23-36.  | 3.7         | 144       |
| 26 | Structure-Function Analysis of Core STRIPAK Proteins. Journal of Biological Chemistry, 2011, 286, 25065-25075.  | 3.4         | 136       |
| 27 | Compartmentalization of cAMP-Dependent Signaling by Phosphodiesterase-4D Is Involved in the Regulation of Vasopressin-Mediated Water Reabsorption in Renal Principal Cells. Journal of the American Society of Nephrology: JASN, 2007, 18, 199-212.                                     | 6.1         | 134       |
| 28 | TCR- and CD28-Mediated Recruitment of Phosphodiesterase 4 to Lipid Rafts Potentiates TCR Signaling. Journal of Immunology, 2004, 173, 4847-4858.  | 0.8         | 123       |
| 29 | Arrestin times for compartmentalised cAMP signalling and phosphodiesterase-4 enzymes. Current Opinion in Cell Biology, 2005, 17, 129-134.   | 5.4         | 120       |
| 30 | The Cardiac IKs Potassium Channel Macromolecular Complex Includes the Phosphodiesterase PDE4D3. Journal of Biological Chemistry, 2009, 284, 9140-9146.  | 3.4         | 118       |
| 31 | p75 neurotrophin receptor regulates tissue fibrosis through inhibition of plasminogen activation via a PDE4/cAMP/PKA pathway. Journal of Cell Biology, 2007, 177, 1119-1132.  | 5.2         | 116       |
| 32 | EPAC and PKA allow cAMP dual control over DNA-PK nuclear translocation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12791-12796.  | 7.1         | 109       |
| 33 | Cardiac Hypertrophy Is Inhibited by a Local Pool of cAMP Regulated by Phosphodiesterase 2. Circulation Research, 2015, 117, 707-719.  | 4.5         | 105       |
| 34 | Inferring Signaling Pathway Topologies from Multiple Perturbation Measurements of Specific Biochemical Species. Science Signaling, 2010, 3, ra20.   | 3.6         | 101       |
| 35 | Differential expression of PDE4 cAMP phosphodiesterase isoforms in inflammatory cells of smokers with COPD, smokers without COPD, and nonsmokers. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 287, L332-L343.  | 2.9         | 100       |
| 36 | The Unique Amino-terminal Region of the PDE4D5 cAMP Phosphodiesterase Isoform Confers Preferential Interaction with β-Arrestins. Journal of Biological Chemistry, 2003, 278, 49230-49238.   | 3.4         | 97        |

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|----|--|------|-----------|
| 37 | Disruption of the cyclic AMP phosphodiesterase-4 (PDE4) $\hat{a}$ €"HSP20 complex attenuates the $\hat{l}^2$ -agonist induced hypertrophic response in cardiac myocytes. Journal of Molecular and Cellular Cardiology, 2011, 50, 872-883.  | 1.9  | 94        |
| 38 | The Structure of the Human RNase H2 Complex Defines Key Interaction Interfaces Relevant to Enzyme Function and Human Disease. Journal of Biological Chemistry, 2011, 286, 10530-10539.   | 3.4  | 94        |
| 39 | Small Molecule AKAP-Protein Kinase A (PKA) Interaction Disruptors That Activate PKA Interfere with Compartmentalized cAMP Signaling in Cardiac Myocytes. Journal of Biological Chemistry, 2011, 286, 9079-9096.  | 3.4  | 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. Journal of Biological Chemistry, 2009, 284, 20263-20274.   | 3.4  | 89        |
| 41 | Mapping binding sites for the PDE4D5 cAMP-specific phosphodiesterase to the N- and C-domains of β-arrestin using spot-immobilized peptide arrays. Biochemical Journal, 2007, 404, 71-80.   | 3.7  | 88        |
| 42 | Iron-Limited Biofilms of Candida albicans and Their Susceptibility to Amphotericin B. Antimicrobial Agents and Chemotherapy, 1998, 42, 2146-2149.  | 3.2  | 87        |
| 43 | Gpr161 anchoring of PKA consolidates GPCR and cAMP signaling. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7786-7791.   | 7.1  | 86        |
| 44 | PDE2A2 regulates mitochondria morphology and apoptotic cell death via local modulation of cAMP/PKA signalling. ELife, 2017, 6, .   | 6.0  | 82        |
| 45 | Remodelling of the PDE4 cAMP phosphodiesterase isoform profile upon monocyteâ€macrophage differentiation of human U937 cells. British Journal of Pharmacology, 2004, 142, 339-351.   | 5.4  | 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. Journal of Biological Chemistry, 2010, 285, 33614-33622.   | 3.4  | 81        |
| 47 | Amyloid β synaptotoxicity is Wntâ€PCP dependent and blocked by fasudil. Alzheimer's and Dementia, 2018, 14, 306-317.   | 0.8  | 81        |
| 48 | Phosphorylation of Janus kinase 1 (JAK1) by AMP-activated protein kinase (AMPK) links energy sensing to anti-inflammatory signaling. Science Signaling, 2016, 9, ra109.  | 3.6  | 80        |
| 49 | Interaction between integrin $\hat{l}\pm 5$ and PDE4D regulates endothelial inflammatory signalling. Nature Cell Biology, 2016, 18, 1043-1053.   | 10.3 | 79        |
| 50 | A high-fat diet promotes depression-like behavior in mice by suppressing hypothalamic PKA signaling. Translational Psychiatry, 2019, 9, 141.   | 4.8  | 77        |
| 51 | The role and therapeutic targeting of $\hat{l}_{\pm}$ -, $\hat{l}^2$ - and $\hat{l}^3$ -secretase in Alzheimer's disease. Future Science OA, 2015, 1, FSO11.   | 1.9  | 75        |
| 52 | A role for APP in Wnt signalling links synapse loss with $\hat{l}^2$ -amyloid production. Translational Psychiatry, 2018, 8, 179.  | 4.8  | 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. Cancer Cell, 2017, 31, 621-634.e6.   | 16.8 | 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). Molecular Pharmacology, 2001, 60, 1100-1111. | 2.3  | 71        |

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|----|--|-----|-----------|
| 55 | Tyrosine 302 in RACK1 Is Essential for Insulin-like Growth Factor-I-mediated Competitive Binding of PP2A and $\hat{I}^21$ Integrin and for Tumor Cell Proliferation and Migration. Journal of Biological Chemistry, 2008, 283, 22952-22961.                          | 3.4 | 67        |
| 56 | The emerging role of HSP20 as a multifunctional protective agent. Cellular Signalling, 2011, 23, 1447-1454.  | 3.6 | 67        |
| 57 | $\hat{l}^2$ -Arrestin 1 Inhibits the GTPase-Activating Protein Function of ARHGAP21, Promoting Activation of RhoA following Angiotensin II Type 1A Receptor Stimulation. Molecular and Cellular Biology, 2011, 31, 1066-1075.  | 2.3 | 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). Journal of Pharmacology and Experimental Therapeutics, 2007, 322, 600-609.     | 2.5 | 65        |
| 59 | MEK1 Binds Directly to $\hat{l}^2$ Arrestin1, Influencing Both Its Phosphorylation by ERK and the Timing of Its Isoprenaline-stimulated Internalization. Journal of Biological Chemistry, 2009, 284, 11425-11435.  | 3.4 | 65        |
| 60 | Phosphorylation of cAMP-specific PDE4A5 (phosphodiesterase-4A5) by MK2 (MAPKAPK2) attenuates its activation through protein kinase A phosphorylation. Biochemical Journal, 2011, 435, 755-769.   | 3.7 | 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 $\hat{\Pi}^2$ -Arrestin/cAMP Phosphodiesterase 4 Complex. Molecular and Cellular Biology, 2010, 30, 1660-1672.         | 2.3 | 61        |
| 62 | Mdm2 Directs the Ubiquitination of $\hat{l}^2$ -Arrestin-sequestered cAMP Phosphodiesterase-4D5. Journal of Biological Chemistry, 2009, 284, 16170-16182.  | 3.4 | 59        |
| 63 | cAMP: Novel concepts in compartmentalised signalling. Seminars in Cell and Developmental Biology, 2012, 23, 181-190.   | 5.0 | 59        |
| 64 | Distinct functional outputs of PTEN signalling are controlled by dynamic association with $\hat{l}^2$ -arrestins. EMBO Journal, 2011, 30, 2557-2568.   | 7.8 | 58        |
| 65 | Heterozygous mutations in cyclic AMP phosphodiesterase-4D (PDE4D) and protein kinase A (PKA) provide new insights into the molecular pathology of acrodysostosis. Cellular Signalling, 2014, 26, 2446-2459.  | 3.6 | 56        |
| 66 | Gravin Orchestrates Protein Kinase A and $\hat{I}^2$ 2-Adrenergic Receptor Signaling Critical for Synaptic Plasticity and Memory. Journal of Neuroscience, 2012, 32, 18137-18149.  | 3.6 | 54        |
| 67 | PDE4-Mediated cAMP Signalling. Journal of Cardiovascular Development and Disease, 2018, 5, 8.  | 1.6 | 54        |
| 68 | Small-molecule allosteric activators of PDE4 long form cyclic AMP phosphodiesterases. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13320-13329.   | 7.1 | 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, βarrestin and RACK1. Cellular Signalling, 2007, 19, 2612-2624. | 3.6 | 53        |
| 70 | Specific Inhibition of Phosphodiesterase-4B Results in Anxiolysis and Facilitates Memory Acquisition. Neuropsychopharmacology, 2016, 41, 1080-1092.  | 5.4 | 53        |
| 71 | Molecular cloning and subcellular distribution of the novel PDE4B4 cAMP-specific phosphodiesterase isoform. Biochemical Journal, 2003, 370, 429-438.   | 3.7 | 52        |
| 72 | Spatial organisation of AKAP18 and PDE4 isoforms in renal collecting duct principal cells. European Journal of Cell Biology, 2006, 85, 673-678.  | 3.6 | 52        |

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|----|---|------|-----------|
| 73 | PKA phosphorylation of the small heat-shock protein Hsp20 enhances its cardioprotective effects. Biochemical Society Transactions, 2012, 40, 210-214.   | 3.4  | 52        |
| 74 | Compartmentalized PDE4A5 Signaling Impairs Hippocampal Synaptic Plasticity and Long-Term Memory. Journal of Neuroscience, 2016, 36, 8936-8946.  | 3.6  | 52        |
| 75 | Dynamic Regulation, Desensitization, and Cross-talk in Discrete Subcellular Microdomains during $\hat{I}^2$ 2-Adrenoceptor and Prostanoid Receptor cAMP Signaling. Journal of Biological Chemistry, 2007, 282, 34235-34249.   | 3.4  | 51        |
| 76 | The role of the PDE4D cAMP phosphodiesterase in the regulation of glucagonâ€like peptideâ€1 release.<br>British Journal of Pharmacology, 2009, 157, 633-644.  | 5.4  | 50        |
| 77 | Compartmentalisation of second messenger signalling pathways. Current Opinion in Genetics and Development, 2014, 27, 20-25.   | 3.3  | 50        |
| 78 | Phosphodiesterase-8A binds to and regulates Raf-1 kinase. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1533-42.   | 7.1  | 49        |
| 79 | Specific interactions between Epac1, $\hat{l}^2$ -arrestin2 and PDE4D5 regulate $\hat{l}^2$ -adrenergic receptor subtype differential effects on cardiac hypertrophic signaling. Cellular Signalling, 2013, 25, 970-980.  | 3.6  | 48        |
| 80 | Targeting protein–protein interactions within the cyclic AMP signaling system as a therapeutic strategy for cardiovascular disease. Future Medicinal Chemistry, 2013, 5, 451-464.   | 2.3  | 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. Journal of Biological Chemistry, 2011, 286, 16285-16296.  | 3.4  | 46        |
| 82 | The A-kinase-anchoring protein AKAP-Lbc facilitates cardioprotective PKA phosphorylation of Hsp20 on Ser16. Biochemical Journal, 2012, 446, 437-443.  | 3.7  | 42        |
| 83 | Reciprocal regulation of PKA and Rac signaling. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8531-8536.  | 7.1  | 42        |
| 84 | p75 Neurotrophin Receptor Regulates Energy Balance in Obesity. Cell Reports, 2016, 14, 255-268.   | 6.4  | 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). Cellular Signalling, 2008, 20, 2356-2369.  | 3.6  | 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. British Journal of Cancer, 2014, 110, 1278-1287.             | 6.4  | 41        |
| 87 | Mutations of $\hat{l}^2$ -arrestin 2 that limit self-association also interfere with interactions with the $\hat{l}^2$ 2-adrenoceptor and the ERK1/2 MAPKs: implications for $\hat{l}^2$ 2-adrenoceptor signalling via the ERK1/2 MAPKs. Biochemical Journal, 2008, 413, 51-60. | 3.7  | 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. Biochemical Society Transactions, 2007, 35, 938-941.                               | 3.4  | 39        |
| 89 | Molecular mechanism of $\hat{Gl}\pm i$ activation by non-GPCR proteins with a $\hat{Gl}\pm -B$ inding and Activating motif. Nature Communications, 2017, 8, 15163.  | 12.8 | 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. Cellular Signalling, 2003, 15, 955-971.                           | 3.6  | 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. Cellular Signalling, 2010, 22, 1576-1596.                     | 3.6 | 37        |
| 92  | RACK(1) to the future – a historical perspective. Cell Communication and Signaling, 2013, 11, 53.   | 6.5 | 37        |
| 93  | Real-time probing of $\hat{l}^2$ -amyloid self-assembly and inhibition using fluorescence self-quenching between neighbouring dyes. Molecular BioSystems, 2014, 10, 34-44.  | 2.9 | 37        |
| 94  | PKA phosphorylation of p62/SQSTM1 regulates PB1 domain interaction partner binding. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2765-2774.   | 4.1 | 37        |
| 95  | AKAP95 Organizes a Nuclear Microdomain to Control Local cAMP for Regulating Nuclear PKA. Cell<br>Chemical Biology, 2019, 26, 885-891.e4.  | 5.2 | 37        |
| 96  | Understanding PDE4's function in Alzheimer's disease; a target for novel therapeutic approaches. Biochemical Society Transactions, 2019, 47, 1557-1565.   | 3.4 | 36        |
| 97  | Phosphodiesterase 4B: Master Regulator of Brain Signaling. Cells, 2020, 9, 1254.  | 4.1 | 36        |
| 98  | Phosphodiesterase-4 influences the PKA phosphorylation status and membrane translocation of G-protein receptor kinase 2 (GRK2) in HEK-293Î <sup>2</sup> 2 cells and cardiac myocytes. Biochemical Journal, 2006, 394, 427-435.        | 3.7 | 35        |
| 99  | Selective SUMO modification of cAMP-specific phosphodiesterase-4D5 (PDE4D5) regulates the functional consequences of phosphorylation by PKA and ERK. Biochemical Journal, 2010, 428, 55-65.   | 3.7 | 35        |
| 100 | Elucidation of a Structural Basis for the Inhibitor-Driven, p62 (SQSTM1)-Dependent Intracellular Redistribution of cAMP Phosphodiesterase-4A4 (PDE4A4). Journal of Medicinal Chemistry, 2011, 54, 3331-3347.                          | 6.4 | 34        |
| 101 | Dimerization of cAMP phosphodiesterase-4 (PDE4) in living cells requires interfaces located in both the UCR1 and catalytic unit domains. Cellular Signalling, 2015, 27, 756-769.  | 3.6 | 34        |
| 102 | $\hat{l}^2$ -Arrestin-recruited phosphodiesterase-4 desensitizes the AKAP79/PKA-mediated switching of $\hat{l}^2$ 2-adrenoceptor signalling to activation of ERK. Biochemical Society Transactions, 2005, 33, 1333.                   | 3.4 | 33        |
| 103 | cAMP phosphodiesterase-4A1 (PDE4A1) has provided the paradigm for the intracellular targeting of phosphodiesterases, a process that underpins compartmentalized cAMP signalling. Biochemical Society Transactions, 2006, 34, 504-509. | 3.4 | 33        |
| 104 | Mitotic activation of the DISC1-inducible cyclic AMP phosphodiesterase-4D9 (PDE4D9), through multi-site phosphorylation, influences cell cycle progression. Cellular Signalling, 2014, 26, 1958-1974.                                 | 3.6 | 33        |
| 105 | Peptide array-based screening reveals a large number of proteins interacting with the ankyrin-repeat domain of the zDHHC17 S-acyltransferase. Journal of Biological Chemistry, 2017, 292, 17190-17202.                                | 3.4 | 33        |
| 106 | Ambra1 spatially regulates Src activity and Src/FAK-mediated cancer cell invasion via trafficking networks. ELife, 2017, 6, .   | 6.0 | 32        |
| 107 | Dynamic Palmitoylation of the Sodium-Calcium Exchanger Modulates Its Structure, Affinity for Lipid-Ordered Domains, and Inhibition by XIP. Cell Reports, 2020, 31, 107697.  | 6.4 | 32        |
| 108 | Cyclic AMPâ€specific phosphodiesterase, PDE8A1, is activated by protein kinase Aâ€mediated phosphorylation. FEBS Letters, 2012, 586, 1631-1637.   | 2.8 | 31        |

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|-----|---|------|-----------|
| 109 | FBXW7 regulates DISC1 stability via the ubiquitin-proteosome system. Molecular Psychiatry, 2018, 23, 1278-1286.   | 7.9  | 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. FEBS Open Bio, 2014, 4, 923-927.   | 2.3  | 30        |
| 111 | UCR1C is a novel activator of phosphodiesterase 4 (PDE4) long isoforms and attenuates cardiomyocyte hypertrophy. Cellular Signalling, 2015, 27, 908-922.  | 3.6  | 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. Biochemical Journal, 2010, 432, 207-219.      | 3.7  | 28        |
| 113 | Small heat shock protein 20 (Hsp20) facilitates nuclear import of protein kinase D 1 (PKD1) during cardiac hypertrophy. Cell Communication and Signaling, 2015, 13, 16.   | 6.5  | 28        |
| 114 | Identification of a multifunctional docking site on the catalytic unit of phosphodiesterase-4 (PDE4) that is utilised by multiple interaction partners. Biochemical Journal, 2017, 474, 597-609.                | 3.7  | 27        |
| 115 | Human PDE4A8, a novel brain-expressed PDE4 cAMP-specific phosphodiesterase that has undergone rapid evolutionary change. Biochemical Journal, 2008, 411, 361-369.   | 3.7  | 26        |
| 116 | Evolutionarily Conserved Role of Calcineurin in Phosphodegron-Dependent Degradation of Phosphodiesterase 4D. Molecular and Cellular Biology, 2010, 30, 4379-4390.   | 2.3  | 26        |
| 117 | Missense mutation in DISC1 C-terminal coiled-coil has GSK3 $\hat{I}^2$ signaling and sex-dependent behavioral effects in mice. Scientific Reports, 2016, 6, 18748.  | 3.3  | 26        |
| 118 | $\hat{l}^2$ -Adrenergic modulation of myocardial conduction velocity: Connexins vs. sodium current. Journal of Molecular and Cellular Cardiology, 2014, 77, 147-154.  | 1.9  | 25        |
| 119 | Interaction of suppressor of cytokine signalling 3 with cavin-1 links SOCS3 function and cavin-1 stability. Nature Communications, 2018, 9, 168.  | 12.8 | 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. Biochemical Journal, 2004, 380, 371-384. | 3.7  | 24        |
| 121 | A scanning peptide array approach uncovers association sites within the JNK/βarrestin signalling complex. FEBS Letters, 2009, 583, 3310-3316.   | 2.8  | 23        |
| 122 | The enigmatic helicase DHX9 and its association with the hallmarks of cancer. Future Science OA, 2021, 7, FSO650.   | 1.9  | 23        |
| 123 | Epidermal Growth Factor Receptor substrate 8 (Eps8) controls Src/FAK-dependent phenotypes in squamous carcinoma cells. Journal of Cell Science, 2014, 127, 5303-16.   | 2.0  | 21        |
| 124 | A biosensor to monitor dynamic regulation and function of tumour suppressor PTEN in living cells. Nature Communications, 2014, 5, 4431.   | 12.8 | 21        |
| 125 | Human PDE4D isoform composition is deregulated in primary prostate cancer and indicative for disease progression and development of distant metastases. Oncotarget, 2016, 7, 70669-70684.                       | 1.8  | 21        |
| 126 | Reduced PDE4 expression and activity contributes to enhanced catecholamine-induced cAMP accumulation in adipocytes from FOXC2 transgenic mice. FEBS Letters, 2006, 580, 4126-4130.                              | 2.8  | 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. British Journal of Cancer, 2015, 113, 1502-1511. | 6.4          | 20        |
| 128 | A biochemical and genetic discovery pipeline identifies PLCÎ'4b as a nonreceptor activator of heterotrimeric G-proteins. Journal of Biological Chemistry, 2018, 293, 16964-16983.  | 3.4          | 20        |
| 129 | The phosphorylation of Hsp20 enhances its association with amyloid- $\hat{l}^2$ to increase protection against neuronal cell death. Molecular and Cellular Neurosciences, 2014, 61, 46-55.   | 2.2          | 19        |
| 130 | PTEN controls glandular morphogenesis through a juxtamembrane $\hat{l}^2$ -Arrestin1/ARHGAP21 scaffolding complex. ELife, 2017, 6, .   | 6.0          | 19        |
| 131 | The activity of cAMPâ€phosphodiesterase 4D7 (PDE4D7) is regulated by protein kinase Aâ€dependent phosphorylation within its unique Nâ€terminus. FEBS Letters, 2015, 589, 750-755.  | 2.8          | 18        |
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