

Carol MacKintosh

List of Publications by Year in descending order

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87
papers

9,143
citations

50170

46
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60497

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all docs

137
docs citations

137
times ranked

8917
citing authors

#	ARTICLE	IF	CITATIONS
1	Glucocorticoid receptor Thr524 phosphorylation by MINK1 induces interactions with 14-3-3 protein regulators. <i>Journal of Biological Chemistry</i> , 2021, 296, 100551.	1.6	9
2	A PKB-SPEG signaling nexus links insulin resistance with diabetic cardiomyopathy by regulating calcium homeostasis. <i>Nature Communications</i> , 2020, 11, 2186.	5.8	31
3	SPEG Controls Calcium Reuptake Into the Sarcoplasmic Reticulum Through Regulating SERCA2a by Its Second Kinase-Domain. <i>Circulation Research</i> , 2019, 124, 712-726.	2.0	43
4	Modulators of 14-3-3 Protein-Protein Interactions. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 3755-3778.	2.9	202
5	Recent advances in understanding the roles of whole genome duplications in evolution. <i>F1000Research</i> , 2018, 6, 1623.	0.8	18
6	A Tbc1d1 Ser231Ala-knockin mutation partially impairs AICAR- but not exercise-induced muscle glucose uptake in mice. <i>Diabetologia</i> , 2017, 60, 336-345.	2.9	32
7	Recent advances in understanding the roles of whole genome duplications in evolution. <i>F1000Research</i> , 2017, 6, 1623.	0.8	19
8	Disruption of the AMPK-TBC1D1 nexus increases lipogenic gene expression and causes obesity in mice via promoting IGF1 secretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7219-7224.	3.3	41
9	AMP-activated protein kinase: a cellular energy sensor that comes in 12 flavours. <i>FEBS Journal</i> , 2016, 283, 2987-3001.	2.2	288
10	The E3 ubiquitin ligase ZNRF2 is a substrate of mTORC1 and regulates its activation by amino acids. <i>ELife</i> , 2016, 5, .	2.8	22
11	14-3-3-Pred: improved methods to predict 14-3-3-binding phosphopeptides. <i>Bioinformatics</i> , 2015, 31, 2276-2283.	1.8	177
12	Fasting and Systemic Insulin Signaling Regulate Phosphorylation of Brain Proteins That Modulate Cell Morphology and Link to Neurological Disorders. <i>Journal of Biological Chemistry</i> , 2015, 290, 30030-30041.	1.6	9
13	Phosphoproteomics Combined with Quantitative 14-3-3-affinity Capture Identifies SIRT1 and RAI as Novel Regulators of Cytosolic Double-stranded RNA Recognition Pathway. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2604-2617.	2.5	14
14	ANIA: ANnotation and Integrated Analysis of the 14-3-3 interactome. <i>Database: the Journal of Biological Databases and Curation</i> , 2014, 2014, bat085.	1.4	51
15	GARNL1, a major RalGAP β subunit in skeletal muscle, regulates insulin-stimulated RalA activation and GLUT4 trafficking via interaction with 14-3-3 proteins. <i>Cellular Signalling</i> , 2014, 26, 1636-1648.	1.7	37
16	Identification of 2R-ohnologue gene families displaying the same mutation-load skew in multiple cancers. <i>Open Biology</i> , 2014, 4, 140029.	1.5	17
17	AS160 deficiency causes whole-body insulin resistance via composite effects in multiple tissues. <i>Biochemical Journal</i> , 2013, 449, 479-489.	1.7	71
18	Effect of IRS4 Levels on PI 3-Kinase Signalling. <i>PLoS ONE</i> , 2013, 8, e73327.	1.1	30

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19	Thr ⁶⁴⁹ /Ala-AS160 knock-in mutation does not impair contraction/AICAR-induced glucose transport in mouse muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E1036-E1043.	1.8	31
20	Identification of the Amino Acids 300-600 of IRS-2 as 14-3-3 Binding Region with the Importance of IGF-1/Insulin-Regulated Phosphorylation of Ser-573. <i>PLoS ONE</i> , 2012, 7, e43296.	1.1	12
21	Evolution of signal multiplexing by 14-3-3-binding 2R-ohologue protein families in the vertebrates. <i>Open Biology</i> , 2012, 2, 120103.	1.5	47
22	ZNRF2 is released from membranes by growth factors and, together with ZNRF1, regulates the Na ⁺ /K ⁺ -ATPase. <i>Journal of Cell Science</i> , 2012, 125, 4662-4675.	1.2	27
23	Mice with AS160/TBC1D4-Thr649Ala Knockin Mutation Are Glucose Intolerant with Reduced Insulin Sensitivity and Altered GLUT4 Trafficking. <i>Cell Metabolism</i> , 2011, 13, 68-79.	7.2	147
24	The capture of phosphoproteins by 14-3-3 proteins mediates actions of insulin. <i>Trends in Endocrinology and Metabolism</i> , 2011, 22, 429-436.	3.1	58
25	ERK/p90RSK/14-3-3 signalling has an impact on expression of PEA3 Ets transcription factors via the transcriptional repressor capicA. <i>Biochemical Journal</i> , 2011, 433, 515-525.	1.7	107
26	Visualization and Biochemical Analyses of the Emerging Mammalian 14-3-3-Phosphoproteome. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.005751.	2.5	63
27	Mechanism of Activation of PKB/Akt by the Protein Phosphatase Inhibitor Calyculin A. <i>Cell Biochemistry and Biophysics</i> , 2010, 58, 147-156.	0.9	6
28	Bioinformatic and experimental survey of 14-3-3-binding sites. <i>Biochemical Journal</i> , 2010, 427, 69-78.	1.7	303
29	Naturally Occurring Inhibitors of Protein Serine/Threonine Phosphatases. , 2010, , 683-687.		1
30	Differential 14-3-3 Affinity Capture Reveals New Downstream Targets of Phosphatidylinositol 3-Kinase Signaling. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 2487-2499.	2.5	61
31	Genetic disruption of AMPK signaling abolishes both contraction- and insulin-stimulated TBC1D1 phosphorylation and 14-3-3 binding in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E665-E675.	1.8	136
32	Protein Kinase C-mediated Phosphorylation and Activation of PDE3A Regulate cAMP Levels in Human Platelets. <i>Journal of Biological Chemistry</i> , 2009, 284, 12339-12348.	1.6	69
33	14-3-3 Binding to Pim-phosphorylated Ser166 and Ser186 of human Mdm2 - Potential interplay with the PKB/Akt pathway and p14 ^{ARF} . <i>FEBS Letters</i> , 2009, 583, 615-620.	1.3	21
34	Differential regulation of NHE1 phosphorylation and glucose uptake by inhibitors of the ERK pathway and p90RSK in 3T3-L1 adipocytes. <i>Cellular Signalling</i> , 2009, 21, 1984-1993.	1.7	35
35	Potential role of TBC1D4 in enhanced post-exercise insulin action in human skeletal muscle. <i>Diabetologia</i> , 2009, 52, 891-900.	2.9	109
36	Complementary regulation of TBC1D1 and AS160 by growth factors, insulin and AMPK activators. <i>Biochemical Journal</i> , 2008, 409, 449-459.	1.7	178

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37	Synthesis and Use of the Protein Phosphatase Affinity Matrices Microcystin-Sepharose and Microcystin-Biotin-Sepharose. , 2007, 365, 39-46.		10
38	PRAS40 Is a Target for Mammalian Target of Rapamycin Complex 1 and Is Required for Signaling Downstream of This Complex*. Journal of Biological Chemistry, 2007, 282, 24514-24524.	1.6	212
39	Regulation of multisite phosphorylation and 14-3-3 binding of AS160 in response to IGF-1, EGF, PMA and AICAR. Biochemical Journal, 2007, 407, 231-241.	1.7	162
40	Proteomic screen in the simple metazoan Hydra identifies 14-3-3 binding proteins implicated in cellular metabolism, cytoskeletal organisation and Ca ²⁺ signalling. BMC Cell Biology, 2007, 8, 31.	3.0	29
41	Phosphorylation and 14-3-3 binding of Arabidopsis trehalose-phosphate synthase Å5 in response to 2-deoxyglucose. Plant Journal, 2006, 47, 211-223.	2.8	160
42	Phosphodiesterase 3A binds to 14-3-3 proteins in response to PMA-induced phosphorylation of Ser428. Biochemical Journal, 2005, 392, 163-172.	1.7	47
43	Affinity Methods for Phosphorylation-Dependent Interactions. , 2004, 261, 469-478.		3
44	14-3-3-affinity purification of over 200 human phosphoproteins reveals new links to regulation of cellular metabolism, proliferation and trafficking. Biochemical Journal, 2004, 379, 395-408.	1.7	418
45	Phosphorylation and 14-3-3 binding of Arabidopsis 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. Plant Journal, 2004, 37, 654-667.	2.8	97
46	Dynamic interactions between 14-3-3 proteins and phosphoproteins regulate diverse cellular processes. Biochemical Journal, 2004, 381, 329-342.	1.7	493
47	Purification of a plant nucleotide pyrophosphatase as a protein that interferes with nitrate reductase and glutamine synthetase assays. FEBS Journal, 2003, 270, 1356-1362.	0.2	18
48	14-3-3s regulate fructose-2,6-bisphosphate levels by binding to PKB-phosphorylated cardiac fructose-2,6-bisphosphate kinase/phosphatase. EMBO Journal, 2003, 22, 3514-3523.	3.5	78
49	Naturally Occurring Inhibitors of Protein Serine/Threonine Phosphatases. , 2003, , 607-611.		4
50	Regulation of the 14-3-3-binding protein p39 by growth factors and nutrients in rat PC12 pheochromocytoma cells. Biochemical Journal, 2002, 368, 565-572.	1.7	34
51	Affinity purification of diverse plant and human 14-3-3-binding partners. Biochemical Society Transactions, 2002, 30, 379-381.	1.6	20
52	Metabolic enzymes as targets for 14-3-3 proteins. Plant Molecular Biology, 2002, 50, 1053-1063.	2.0	123
53	Cytosolic glutamine synthetase and not nitrate reductase from the green alga Chlamydomonas reinhardtii is phosphorylated and binds 14-3-3 proteins. Planta, 2001, 212, 264-269.	1.6	42
54	Phosphorylation of serine 230 promotes inducible transcriptional activity of heat shock factor 1. EMBO Journal, 2001, 20, 3800-3810.	3.5	274

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55	Do 14-3-3s regulate 'Resource Allocation in Crops'?. <i>Annals of Applied Biology</i> , 2001, 138, 1-7.	1.3	3
56	14-3-3s regulate global cleavage of their diverse binding partners in sugar-starved <i>Arabidopsis</i> cells. <i>EMBO Journal</i> , 2000, 19, 2869-2876.	3.5	180
57	Phosphorylation-dependent interactions between enzymes of plant metabolism and 14-3-3 proteins. <i>Plant Journal</i> , 1999, 18, 1-12.	2.8	275
58	Microcystin affinity purification of plant protein phosphatases: PP1C, PP5 and a regulatory A-subunit of PP2A. <i>FEBS Letters</i> , 1999, 457, 494-498.	1.3	28
59	Regulation of cytosolic enzymes in primary metabolism by reversible protein phosphorylation. <i>Current Opinion in Plant Biology</i> , 1998, 1, 224-229.	3.5	56
60	Purification of a nitrate reductase kinase from <i>Spinacea oleracea</i> leaves, and its identification as a calmodulin-domain protein kinase. <i>Planta</i> , 1998, 206, 435-442.	1.6	72
61	Regulation of plant nitrate assimilation: from ecophysiology to brain proteins. <i>New Phytologist</i> , 1998, 139, 153-159.	3.5	20
62	14-3-3 Proteins: From Plant Nitrate Reductase to Wider Roles in Plant Responses to Hormones, Stresses, and Nutrients. , 1998, , 3511-3516.		0
63	Three spinach leaf nitrate reductase-3-hydroxy-3-methylglutaryl-CoA reductase kinases that are regulated by reversible phosphorylation and/or Ca ²⁺ ions. <i>Biochemical Journal</i> , 1997, 325, 101-109.	1.7	113
64	First identification of microcystins in Irish lakes aided by a new derivatisation procedure for electrospray mass spectrometric analysis. <i>Natural Toxins</i> , 1997, 5, 247-254.	1.0	21
65	Further evidence that inhibitor-2 acts like a chaperone to fold PP1 into its native conformation. <i>FEBS Letters</i> , 1996, 397, 235-238.	1.3	66
66	Phosphorylated nitrate reductase from spinach leaves is inhibited by 14-3-3 proteins and activated by fusicoccin. <i>Current Biology</i> , 1996, 6, 1104-1113.	1.8	251
67	Development of a colorimetric protein phosphorylation assay for detecting cyanobacterial toxins. <i>Water Science and Technology</i> , 1995, 31, 47.	1.2	6
68	Use of a protein phosphatase inhibition test for the detection of cyanobacterial toxins in water. <i>Water Science and Technology</i> , 1995, 31, 51.	1.2	7
69	Identification of a Protein That Inhibits the Phosphorylated Form of Nitrate Reductase from Spinach (<i>Spinacia oleracea</i>) Leaves. <i>Plant Physiology</i> , 1995, 107, 451-457.	2.3	138
70	Purification of the hepatic glycogen-associated form of protein phosphatase-1 by microcystin-Sepharose affinity chromatography. <i>FEBS Letters</i> , 1995, 362, 101-105.	1.3	84
71	Protein histidine phosphatase activity in rat liver and spinach leaves. <i>FEBS Letters</i> , 1995, 364, 51-54.	1.3	20
72	The cyanobacterial toxin microcystin binds covalently to cysteine-273 on protein phosphatase 1. <i>FEBS Letters</i> , 1995, 371, 236-240.	1.3	253

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73	Identification of a regulatory phosphorylation site in the hinge 1 region of nitrate reductase from spinach (<i>Spinacea oleracea</i>) leaves. <i>FEBS Letters</i> , 1995, 377, 113-117.	1.3	69
74	Protein phosphatase inhibitors activate anti-fungal defence responses of soybean cotyledons and cell cultures. <i>Plant Journal</i> , 1994, 5, 137-147.	2.8	109
75	Inhibitors of protein kinases and phosphatases. <i>Trends in Biochemical Sciences</i> , 1994, 19, 444-448.	3.7	257
76	Purification of type 1 protein (serine/threonine) phosphatases by microcystin-Sepharose affinity chromatography. <i>FEBS Letters</i> , 1994, 356, 46-50.	1.3	150
77	The Inhibition of Protein Phosphatases by Toxins: Implications for Health and an Extremely Sensitive and Rapid Bioassay for Toxin Detection. , 1994, , 90-99.		11
78	Protein phosphatase 2A and its [³ H]cantharidin/[³ H]endothall thioanhydride binding site. <i>Biochemical Pharmacology</i> , 1993, 46, 1435-1443.	2.0	137
79	Regulation of spinach-leaf nitrate reductase by reversible phosphorylation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1992, 1137, 121-126.	1.9	121
80	Characterization of the major phosphofructokinase " dephosphorylating protein phosphatases from <i>Ascaris suum</i> muscle. <i>BBA - Proteins and Proteomics</i> , 1992, 1122, 23-32.	2.1	6
81	A myofibrillar protein phosphatase from rabbit skeletal muscle contains the beta isoform of protein phosphatase-1 complexed to a regulatory subunit which greatly enhances the dephosphorylation of myosin. <i>FEBS Journal</i> , 1992, 210, 1037-1044.	0.2	56
82	Illumination increases the phosphorylation state of maize leaf phospho enolpyruvate carboxylase by causing an increase in the activity of a protein kinase. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1991, 1093, 189-195.	1.9	52
83	Cyanobacterial microcystin-LR is a potent and specific inhibitor of protein phosphatases 1 and 2A from both mammals and higher plants. <i>FEBS Letters</i> , 1990, 264, 187-192.	1.3	1,488
84	Tautomycin from the bacterium <i>Streptomyces verticillatus</i> . <i>FEBS Letters</i> , 1990, 277, 137-140.	1.3	187
85	Sucrose-phosphate synthase is dephosphorylated by protein phosphatase 2A in spinach leaves. <i>FEBS Letters</i> , 1990, 270, 198-202.	1.3	118
86	Phosphorylation of the glycogen-binding subunit of protein phosphatase-1C in response to adrenalin. <i>FEBS Letters</i> , 1988, 234, 189-194.	1.3	39
87	Purification and properties of <i>Escherichia coli</i> isocitrate lyase. <i>Biochemical Society Transactions</i> , 1986, 14, 320-321.	1.6	3