Walter Kolch

List of Publications by Year
in descending order

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304 papers	31,505 citations	3325 91 h-index	4870 168 g-index
318 all docs	318 docs citations	318 times ranked	31523 citing authors

#	Article	IF	Citations
1	MAP kinase signalling pathways in cancer. Oncogene, 2007, 26, 3279-3290.	2.6	2,473
2	Protein kinase CÎ± activates RAF-1 by direct phosphorylation. Nature, 1993, 364, 249-252.	13.7	1,297
3	Meaningful relationships: the regulation of the Ras/Raf/MEK/ERK pathway by protein interactions. Biochemical Journal, 2000, 351, 289-305.	1.7	1,212
4	Coordinating ERK/MAPK signalling through scaffolds and inhibitors. Nature Reviews Molecular Cell Biology, 2005, 6, 827-837.	16.1	941
5	Suppression of Raf-1 kinase activity and MAP kinase signalling by RKIP. Nature, 1999, 401, 173-177.	13.7	808
6	Signalling ballet in space and time. Nature Reviews Molecular Cell Biology, 2010, 11, 414-426.	16.1	563
7	Overexpression of protein kinase C-delta and -epsilon in NIH 3T3 cells induces opposite effects on growth, morphology, anchorage dependence, and tumorigenicity.. Journal of Biological Chemistry, 1993, 268, 6090-6096.	1.6	490
8	Raf-1 protein kinase is required for growth of induced NIH/3T3 cells. Nature, 1991, 349, 426-428.	13.7	489
9	The Parkinson disease causing LRRK2 mutation I2020T is associated with increased kinase activity. Human Molecular Genetics, 2006, 15, 223-232.	1.4	442
10	Naturally Occurring Human Urinary Peptides for Use in Diagnosis of Chronic Kidney Disease. Molecular and Cellular Proteomics, 2010, 9, 2424-2437.	2.5	434
11	Overexpression of protein kinase C-delta and -epsilon in NIH 3T3 cells induces opposite effects on growth, morphology, anchorage dependence, and tumorigenicity. Journal of Biological Chemistry, 1993, 268, 6090-6.	1.6	420
12	Targeting MAPK Signaling in Cancer: Mechanisms of Drug Resistance and Sensitivity. International Journal of Molecular Sciences, 2020, 21, 1102.	1.8	408
13	Meaningful relationships: the regulation of the Ras/Raf/MEK/ERK pathway by protein interactions. Biochemical Journal, 2000, 351 Pt 2, 289-305.	1.7	382
14	RASSF1A Elicits Apoptosis through an MST2 Pathway Directing Proapoptotic Transcription by the p73 Tumor Suppressor Protein. Molecular Cell, 2007, 27, 962-975.	4.5	369
15	Raf Kinase Inhibitor Protein Interacts with NF-ÎºB-Inducing Kinase and TAK1 and Inhibits NF-ÎºB Activation. Molecular and Cellular Biology, 2001, 21, 7207-7217.	1.1	368
16	Regulation and Role of Raf-1/B-Raf Heterodimerization. Molecular and Cellular Biology, 2006, 26, 2262-2272.	1.1	363
17	Mechanism of Suppression of the Raf/MEK/Extracellular Signal-Regulated Kinase Pathway by the Raf Kinase Inhibitor Protein. Molecular and Cellular Biology, 2000, 20, 3079-3085.	1.1	357
18	Meaningful relationships: the regulation of the Ras/Raf/MEK/ERK pathway by protein interactions. Biochemical Journal, 2000, 351, 289.	1.7	347

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19	Mutant p53 potentiates protein kinase C induction of vascular endothelial growth factor expression. Oncogene, 1994, 9, 963-9.	2.6	339
20	Identification of the Mechanisms Regulating the Differential Activation of the MAPK Cascade by Epidermal Growth Factor and Nerve Growth Factor in PC12 Cells. Journal of Biological Chemistry, 2001, 276, 18169-18177.	1.6	331
21	Raf Family Kinases: Old Dogs Have Learned New Tricks. Genes and Cancer, 2011, 2, 232-260.	0.6	322
22	Mechanism of inhibition of Raf-1 by protein kinase A.. Molecular and Cellular Biology, 1994, 14, 6696-6703.	1.1	310
23	Role of the Kinase MST2 in Suppression of Apoptosis by the Proto-Oncogene Product Raf-1. Science, 2004, 306, 2267-2270.	6.0	292
24	Epstein-Barr virus latent membrane protein-1 triggers AP-1 activity via the c-Jun N-terminal kinase cascade. EMBO Journal, 1997, 16, 6478-6485.	3.5	291
25	Computational modelling of the receptor-tyrosine-kinase-activated MAPK pathway. Biochemical Journal, 2005, 392, 249-261.	1.7	289
26	The dynamic control of signal transduction networks in cancer cells. Nature Reviews Cancer, 2015, 15, 515-527.	12.8	282
27	Immunocytochemical Localization of Eight Protein Kinase C Isozymes Overexpressed in NIH 3T3 Fibroblasts. Journal of Biological Chemistry, 1995, 270, 9991-10001.	1.6	280
28	Capillary electrophoresis-mass spectrometry as a powerful tool in clinical diagnosis and biomarker discovery. Mass Spectrometry Reviews, 2005, 24, 959-977.	2.8	275
29	Clinical proteomics: A need to define the field and to begin to set adequate standards. Proteomics - Clinical Applications, 2007, 1, 148-156.	0.8	274
30	Recommendations for Biomarker Identification and Qualification in Clinical Proteomics. Science Translational Medicine, 2010, 2, 46ps42.	5.8	273
31	Cell fate decisions are specified by the dynamic ERK interactome. Nature Cell Biology, 2009, 11, 1458-1464.	4.6	264
32	Ligands working as receptors: reverse signaling by members of the TNF superfamily enhance the plasticity of the immune system. Cytokine and Growth Factor Reviews, 2004, 15, 353-366.	3.2	246
33	Mutational activation of c-raf-1 and definition of the minimal transforming sequence.. Molecular and Cellular Biology, 1990, 10, 2503-2512.	1.1	240
34	Regulation of Raf-1 activation and signalling by dephosphorylation. EMBO Journal, 2002, 21, 64-71.	3.5	239
35	Reduction of Raf-1 Kinase Inhibitor Protein Expression Correlates with Breast Cancer Metastasis. Clinical Cancer Research, 2005, 11, 7392-7397.	3.2	228
36	The Mammalian MAPK/ERK Pathway Exhibits Properties of a Negative Feedback Amplifier. Science Signaling, 2010, 3, ra90.	1.6	216

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37	Negative Regulation of Raf-1 by Phosphorylation of Serine 621. Molecular and Cellular Biology, 1996, 16, 5409-5418.	1.1	210
38	Cyclic AMP-Dependent Kinase Regulates Raf-1 Kinase Mainly by Phosphorylation of Serine 259. Molecular and Cellular Biology, 2002, 22, 3237-3246.	1.1	202
39	Raf-1-associated Protein Phosphatase 2A as a Positive Regulator of Kinase Activation. Journal of Biological Chemistry, 2000, 275, 22300-22304.	1.6	200
40	Urinary Proteomic Biomarkers in Coronary Artery Disease. Molecular and Cellular Proteomics, 2008, 7, 290-298.	2.5	197
41	Cell-Type Specific Integration of Cross-Talk between Extracellular Signal-Regulated Kinase and cAMP Signaling. Molecular Pharmacology, 2000, 58, 659-668.	1.0	187
42	Mass spectrometry for the detection of differentially expressed proteins: a comparison of surface-enhanced laser desorption/ionization and capillary electrophoresis/mass spectrometry. Rapid Communications in Mass Spectrometry, 2004, 18, 149-156.	0.7	186
43	Functional proteomics to dissect tyrosine kinase signalling pathways in cancer. Nature Reviews Cancer, 2010, 10, 618-629.	12.8	185
44	Reduction in Raf Kinase Inhibitor Protein Expression Is Associated with Increased Ras-Extracellular Signal-Regulated Kinase Signaling in Melanoma Cell Lines. Cancer Research, 2004, 64, 5186-5192.	0.4	181
45	Snail is a repressor of RKIP transcription in metastatic prostate cancer cells. Oncogene, 2008, 27, 2243-2248.	2.6	179
46	CEâ€MS analysis of the human urinary proteome for biomarker discovery and disease diagnostics. Proteomics - Clinical Applications, 2008, 2, 964-973.	0.8	178
47	Evaluating Strategies to Normalise Biological Replicates of Western Blot Data. PLoS ONE, 2014, 9, e87293.	1.1	174
48	Reverse Signaling Through Transmembrane TNF Confers Resistance to Lipopolysaccharide in Human Monocytes and Macrophages. Journal of Immunology, 2000, 164, 6193-6198.	0.4	171
49	Untying the regulation of the Raf-1 kinase. Archives of Biochemistry and Biophysics, 2002, 404, 3-9.	1.4	166
50	Raf Kinase Inhibitor Protein Expression in a Survival Analysis of Colorectal Cancer Patients. Journal of Clinical Oncology, 2006, 24, 5672-5679.	0.8	166
51	Positive- and negative-feedback regulations coordinate the dynamic behavior of the Ras-Raf-MEK-ERK signal transduction pathway. Journal of Cell Science, 2009, 122, 425-435.	1.2	162
52	Bistability in the Rac1, PAK, and RhoA Signaling Network Drives Actin Cytoskeleton Dynamics and Cell Motility Switches. Cell Systems, 2016, 2, 38-48.	2.9	159
53	The secret life of kinases: functions beyond catalysis. Cell Communication and Signaling, 2011, 9, 23.	2.7	154
54	When ubiquitination meets phosphorylation: a systems biology perspective of EGFR/MAPK signalling. Cell Communication and Signaling, 2013, 11, 52.	2.7	154

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55	The role of MAPK pathways in the action of chemotherapeutic drugs. Carcinogenesis, 2002, 23, 1831-1838.	1.3	152
56	Computational Approaches for Analyzing Information Flow in Biological Networks. Science Signaling, 2012, 5, re1.	1.6	152
57	When kinases meet mathematics: the systems biology of MAPK signalling. FEBS Letters, 2005, 579, 1891-1895.	1.3	151
58	Conferring specificity on the ubiquitous Raf/MEK signalling pathway. British Journal of Cancer, 2004, 90, 283-288.	2.9	148
59	Regulation of Raf-1 kinase activity by the 14-3-3 family of proteins.. EMBO Journal, 1995, 14, 685-696.	3.5	146
60	Big Signals from Small Particles: Regulation of Cell Signaling Pathways by Nanoparticles. Chemical Reviews, 2013, 113, 3391-3406.	23.0	146
61	A hidden oncogenic positive feedback loop caused by crosstalk between Wnt and ERK Pathways. Oncogene, 2007, 26, 4571-4579.	2.6	141
62	Signaling pathway models as biomarkers: Patient-specific simulations of JNK activity predict the survival of neuroblastoma patients. Science Signaling, 2015, 8, ra130.	1.6	140
63	Comprehensive human urine standards for comparability and standardization in clinical proteome analysis. Proteomics - Clinical Applications, 2010, 4, 464-478.	0.8	139
64	Functional Roles of Multiple Feedback Loops in Extracellular Signal-Regulated Kinase and Wnt Signaling Pathways That Regulate Epithelial-Mesenchymal Transition. Cancer Research, 2010, 70, 6715-6724.	0.4	138
65	Protein interaction switches coordinate Raf-1 and MST2/Hippo signalling. Nature Cell Biology, 2014, 16, 673-684.	4.6	138
66	Regulation of the Rafâ€“MEKâ€“ERK pathway by protein phosphatase 5. Nature Cell Biology, 2006, 8, 1011-1016.	4.6	137
67	Crosstalk and Signaling Switches in Mitogen-Activated Protein Kinase Cascades. Frontiers in Physiology, 2012, 3, 355.	1.3	137
68	Mutational Activation of c-raf-1 and Definition of the Minimal Transforming Sequence. Molecular and Cellular Biology, 1990, 10, 2503-2512.	1.1	136
69	Regulation of the expression of the VEGF/VPS and its receptors: role in tumor angiogenesis. Breast Cancer Research and Treatment, 1995, 36, 139-155.	1.1	135
70	Microfluidic single cell arrays to interrogate signalling dynamics of individual, patient-derived hematopoietic stem cells. Lab on A Chip, 2009, 9, 2659.	3.1	134
71	The Role of Raf-1 Phosphorylation in Signal Transduction. Advances in Cancer Research, 1992, 58, 53-73.	1.9	128
72	Mutant K-Ras Activation of the Proapoptotic MST2 Pathway Is Antagonized by Wild-Type K-Ras. Molecular Cell, 2011, 44, 893-906.	4.5	127

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73	Extracellular signal regulated kinase (ERK)/mitogen activated protein kinase (MAPK)-independent functions of Raf kinases. Journal of Cell Science, 2002, 115, 1575-1581.	1.2	127
74	On-Beads Digestion in Conjunction with Data-Dependent Mass Spectrometry: A Shortcut to Quantitative and Dynamic Interaction Proteomics. Biology, 2014, 3, 320-332.	1.3	126
75	Raf Kinase Inhibitor Protein RKIP Enhances Signaling by Glycogen Synthase Kinase-3Î². Cancer Research, 2011, 71, 1334-1343.	0.4	124
76	PKC epsilon functions as an oncogene by enhancing activation of the Raf kinase. Oncogene, 1996, 13, 2517-26.	2.6	123
77	Discovery of biomarkers in human urine and cerebrospinal fluid by capillary electrophoresis coupled to mass spectrometry: Towards new diagnostic and therapeutic approaches. Electrophoresis, 2005, 26, 1476-1487.	1.3	120
78	Oncogenic K-RAS Is Required to Maintain Changes in Cytoskeletal Organization, Adhesion, and Motility in Colon Cancer Cells. Cancer Research, 2005, 65, 1244-1250.	0.4	120
79	Investigating the correspondence between transcriptomic and proteomic expression profiles using coupled cluster models. Bioinformatics, 2008, 24, 2894-2900.	1.8	117
80	Mechanism of Inhibition of Raf-1 by Protein Kinase A. Molecular and Cellular Biology, 1994, 14, 6696-6703.	1.1	112
81	Extracellular signal regulated kinase (ERK)/mitogen activated protein kinase (MAPK)-independent functions of Raf kinases. Journal of Cell Science, 2002, 115, 1575-81.	1.2	111
82	Expression of protein kinase C genes in hemopoietic cells is cell-type- and B cell-differentiation stage specific. Journal of Immunology, 1991, 147, 3981-7.	0.4	109
83	Addressing the Challenge of Defining Valid Proteomic Biomarkers and Classifiers. BMC Bioinformatics, 2010, 11, 594.	1.2	108
84	Zinc finger domains and phorbol ester pharmacophore. Analysis of binding to mutated form of protein kinase C zeta and the vav and c-raf proto-oncogene products. Journal of Biological Chemistry, 1994, 269, 11590-11594.	1.6	108
85	Complete coding sequence of a human B-raf cDNA and detection of B-raf protein kinase with isozyme specific antibodies. Oncogene, 1990, 5, 1775-80.	2.6	104
86	ALIX Regulates Tumor-Mediated Immunosuppression by Controlling EGFR Activity and PD-L1 Presentation. Cell Reports, 2018, 24, 630-641.	2.9	103
87	Inferring Signaling Pathway Topologies from Multiple Perturbation Measurements of Specific Biochemical Species. Science Signaling, 2010, 3, ra20.	1.6	101
88	Regulation of Raf-1 kinase by TNF via its second messenger ceramide and cross-talk with mitogenic signalling. EMBO Journal, 1998, 17, 732-742.	3.5	99
89	Modeling and Simulation of Intracellular Dynamics: Choosing an Appropriate Framework. IEEE Transactions on Nanobioscience, 2004, 3, 200-207.	2.2	99
90	Proapoptotic Kinase MST2 Coordinates Signaling Crosstalk between RASSF1A, Raf-1, and Akt. Cancer Research, 2010, 70, 1195-1203.	0.4	99

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91	Zinc finger domains and phorbol ester pharmacophore. Analysis of binding to mutated form of protein kinase C zeta and the vav and c-raf proto-oncogene products. Journal of Biological Chemistry, 1994, 269, 11590-4.	1.6	99
92	The molecular make-up of a tumour: proteomics in cancer research. Clinical Science, 2005, 108, 369-383.	1.8	97
93	Splicing factor hnRNP A2 activates the Ras-MAPK-ERK pathway by controlling A-Raf splicing in hepatocellular carcinoma development. Rna, 2014, 20, 505-515.	1.6	95
94	Mouse protein kinase C-.delta., the major isoform expressed in mouse hemopoietic cells: sequence of the cDNA, expression patterns, and characterization of the protein. Biochemistry, 1991, 30, 7925-7931.	1.2	90
95	Prolactin-stimulated activation of ERK1/2 mitogen-activated protein kinases is controlled by PI3-kinase/Rac/PAK signaling pathway in breast cancer cells. Cellular Signalling, 2011, 23, 1794-1805.	1.7	89
96	Emergence of bimodal cell population responses from the interplay between analog single-cell signaling and protein expression noise. BMC Systems Biology, 2012, 6, 109.	3.0	89
97	PI3K/Akt-sensitive MEK-independent compensatory circuit of ERK activation in ER-positive PI3K-mutant T47D breast cancer cells. Cellular Signalling, 2010, 22, 1369-1378.	1.7	84
98	The RASSF8 candidate tumor suppressor inhibits cell growth and regulates the Wnt and NF-ÎºB signaling pathways. Oncogene, 2010, 29, 4307-4316.	2.6	83
99	Heterogeneous Nuclear Ribonucleoprotein H Blocks MST2-Mediated Apoptosis in Cancer Cells by Regulating a-raf Transcription. Cancer Research, 2010, 70, 1679-1688.	0.4	82
100	HGF Induces Epithelial-to-Mesenchymal Transition by Modulating the Mammalian Hippo/MST2 and ISG15 Pathways. Journal of Proteome Research, 2014, 13, 2874-2886.	1.8	82
101	Nerve Growth Factor-mediated Activation of the Mitogen-activated Protein (MAP) Kinase Cascade Involves a Signaling Complex Containing B-Raf and HSP90. Journal of Biological Chemistry, 1996, 271, 23626-23629.	1.6	80
102	Technical, bioinformatical and statistical aspects of liquid chromatographyâ€“mass spectrometry (LCâ€“MS) and capillary electrophoresis-mass spectrometry (CE-MS) based clinical proteomics: A critical assessmentâ˜†. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 1250-1258.	1.2	80
103	Protein kinase C-Îµ associates with the Raf-1 kinase and induces the production of growth factors that stimulate Raf-1 activity. Oncogene, 1997, 15, 2921-2927.	2.6	78
104	Proteomic analysis of phosphorylation, oxidation and nitrosylation in signal transduction. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1823-1841.	1.1	78
105	RASSF2 associates with and stabilizes the proapoptotic kinase MST2. Oncogene, 2009, 28, 2988-2998.	2.6	77
106	Association of MEK1 with p21ras.GMPPNP is dependent on B-Raf.. Molecular and Cellular Biology, 1994, 14, 7153-7162.	1.1	75
107	MST Kinases Monitor Actin Cytoskeletal Integrity and Signal via c-Jun N-Terminal Kinase Stress-Activated Kinase To Regulate p21^{Waf1/Cip1} Stability. Molecular and Cellular Biology, 2009, 29, 6380-6390.	1.1	74
108	GSK3 Inhibitors Regulate MYCN mRNA Levels and Reduce Neuroblastoma Cell Viability through Multiple Mechanisms, Including p53 and Wnt Signaling. Molecular Cancer Therapeutics, 2014, 13, 454-467.	1.9	73

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109	Theoretical and experimental analysis links isoformâ€•specific ERK signalling to cell fate decisions. Molecular Systems Biology, 2009, 5, 334.	3.2	72
110	MAPK kinase signalling dynamics regulate cell fate decisions and drug resistance. Current Opinion in Structural Biology, 2016, 41, 151-158.	2.6	72
111	Inhibition of the Raf-1 Kinase by Cyclic AMP Agonists Causes Apoptosis of v-abl-Transformed Cells. Molecular and Cellular Biology, 1997, 17, 3229-3241.	1.1	70
112	Raf kinase inhibitor protein: mechanism of loss of expression and association with genomic instability. Journal of Clinical Pathology, 2008, 61, 524-529.	1.0	68
113	Identification and analysis of phosphopeptides. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 803, 111-120.	1.2	65
114	Integrating network reconstruction with mechanistic modeling to predict cancer therapies. Science Signaling, 2016, 9, ra114.	1.6	63
115	Characterization of IÎºB Kinases. Journal of Biological Chemistry, 1996, 271, 13868-13874.	1.6	62
116	The role of Raf kinases in malignant transformation. Expert Reviews in Molecular Medicine, 2002, 4, 1-18.	1.6	62
117	c-Myc Regulates RNA Splicing of the A-Raf Kinase and Its Activation of the ERK Pathway. Cancer Research, 2011, 71, 4664-4674.	0.4	61
118	Phosphatase and Feedback Regulation of Raf-1 Signaling. Cell Cycle, 2007, 6, 3-7.	1.3	60
119	Taming the Hippo: Raf-1 Controls Apoptosis by Suppressing MST2/Hippo. Cell Cycle, 2005, 4, 365-367.	1.3	59
120	Activation of the Epstein-Barr Virus Transcription Factor BZLF1 by 12- O -Tetradecanoylphorbol-13-Acetate-Induced Phosphorylation. Journal of Virology, 1998, 72, 8105-8114.	1.5	59
121	RAF kinase inhibitory protein (RKIP) modulates cell cycle kinetics and motility. Molecular BioSystems, 2011, 7, 928-941.	2.9	58
122	Comparison of anthracycline-induced death of human leukemia cells: programmed cell death versus necrosis. Apoptosis: an International Journal on Programmed Cell Death, 2002, 7, 537-548.	2.2	56
123	ERK2 drives tumour cell migration in 3D microenvironments by suppressing expression of Rab17 and Liprin-Î²2. Journal of Cell Science, 2012, 125, 1465-77.	1.2	56
124	The Rafâ€1 kinase associates with vimentin kinases and regulates the structure of vimentin filaments. FASEB Journal, 2000, 14, 2008-2021.	0.2	55
125	Oncogenic B-Raf mutations. Cancer Cell, 2004, 5, 303-304.	7.7	55
126	High-precision FLIMâ€“FRET in fixed and living cells reveals heterogeneity in a simple CFPâ€“YFP fusion protein. Biophysical Chemistry, 2007, 127, 155-164.	1.5	55

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127	Targeting MAPK Signalling: Prometheus Fire or Pandoras Box?. Current Pharmaceutical Design, 2004, 10, 1885-1905.	0.9	54
128	Lab-on-a-chip technologies for proteomic analysis from isolated cells. Journal of the Royal Society Interface, 2008, 5, S123-30.	1.5	54
129	Computational modelling of cancerous mutations in the EGFR/ERK signalling pathway. BMC Systems Biology, 2009, 3, 100.	3.0	54
130	Mammalian Sterile 20â€“Like Kinases in Tumor Suppression: An Emerging Pathway: Figure 1.. Cancer Research, 2005, 65, 5485-5487.	0.4	53
131	Dissecting RAF Inhibitor Resistance by Structure-based Modeling Reveals Ways to Overcome Oncogenic RAS Signaling. Cell Systems, 2018, 7, 161-179.e14.	2.9	53
132	Cell-type specific integration of cross-talk between extracellular signal-regulated kinase and cAMP signaling. Molecular Pharmacology, 2000, 58, 659-68.	1.0	53
133	A Raf-1 Mutant That Dissociates MEK/Extracellular Signal-Regulated Kinase Activation from Malignant Transformation and Differentiation but Not Proliferation. Molecular and Cellular Biology, 2003, 23, 1983-1993.	1.1	51
134	LPS resistance in monocytic cells caused by reverse signaling through transmembrane TNF (mTNF) is mediated by the MAPK/ERK pathway. Journal of Leukocyte Biology, 2004, 75, 324-331.	1.5	51
135	Chip-Based Dynamic Real-Time Quantification of Drug-Induced Cytotoxicity in Human Tumor Cells. Analytical Chemistry, 2009, 81, 6952-6959.	3.2	51
136	Ras/Raf signalling and emerging pharmacotherapeutic targets. Expert Opinion on Pharmacotherapy, 2002, 3, 709-718.	0.9	50
137	The RKIP (Raf-1 Kinase Inhibitor Protein) conserved pocket binds to the phosphorylated N-region of Raf-1 and inhibits the Raf-1-mediated activated phosphorylation of MEK. Cellular Signalling, 2008, 20, 935-941.	1.7	49
138	Pseudophosphatase STYX modulates cell-fate decisions and cell migration by spatiotemporal regulation of ERK1/2. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2934-43.	3.3	49
139	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.	3.3	49
140	Cell Type-Specific Activation of AKT and ERK Signaling Pathways by Small Negatively-Charged Magnetic Nanoparticles. Scientific Reports, 2012, 2, 868.	1.6	48
141	The PKC targeting protein RACK1 interacts with the Epstein-Barr virus activator protein BZLF1. FEBS Journal, 2000, 267, 3891-3901.	0.2	47
142	An inhibitory mutant of c-Raf-1 blocks v-Src-induced activation of the Egr-1 promoter. Journal of Biological Chemistry, 1991, 266, 20594-7.	1.6	46
143	Induction of Apoptosis by Protein Kinase CÎ´ Is Independent of Its Kinase Activity. Journal of Biological Chemistry, 2002, 277, 32054-32062.	1.6	45
144	The C-terminus of Raf-1 acts as a 14-3-3-dependent activation switch. Cellular Signalling, 2009, 21, 1645-1651.	1.7	44

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145	Regulation of Raf-1 kinase activity by the 14-3-3 family of proteins. EMBO Journal, 1995, 14, 685-96.	3.5	44
146	Regulation of RKIP binding to the N-region of the Raf-1 kinase. FEBS Letters, 2006, 580, 6405-6412.	1.3	43
147	Phosphorylation of RAF Kinase Dimers Drives Conformational Changes that Facilitate Transactivation. Angewandte Chemie - International Edition, 2016, 55, 983-986.	7.2	43
148	Activated Raf Induces the Hyperphosphorylation of Stathmin and the Reorganization of the Microtubule Network. Journal of Biological Chemistry, 1998, 273, 22848-22855.	1.6	43
149	RAN GTPase Is a RASSF1A Effector Involved in Controlling Microtubule Organization. Current Biology, 2009, 19, 1227-1232.	1.8	42
150	Extensive rewiring of the EGFR network in colorectal cancer cells expressing transforming levels of KRASG13D. Nature Communications, 2020, 11, 499.	5.8	42
151	Transcriptional and metabolic rewiring of colorectal cancer cells expressing the oncogenic KRASG13D mutation. British Journal of Cancer, 2019, 121, 37-50.	2.9	41
152	Raf Kinase Inhibitor Protein Regulation of Raf and MAPK Signaling. Methods in Enzymology, 2006, 407, 248-259.	0.4	40
153	Mutations of Î²-arrestin 2 that limit self-association also interfere with interactions with the Î²2-adrenoceptor and the ERK1/2 MAPKs: implications for Î²2-adrenoceptor signalling via the ERK1/2 MAPKs. Biochemical Journal, 2008, 413, 51-60.	1.7	40
154	Periodic propagating waves coordinate RhoGTPase network dynamics at the leading and trailing edges during cell migration. ELife, 2020, 9, .	2.8	40
155	Activated raf induces the hyperphosphorylation of stathmin and the reorganization of the microtubule network. Journal of Biological Chemistry, 1998, 273, 22848-55.	1.6	40
156	It takes two to tango â€“ signalling by dimeric Raf kinases. Molecular BioSystems, 2013, 9, 551-558.	2.9	39
157	INFLUENCE OF BACTERIAL ENDOTOXIN ON RADIATION-INDUCED ACTIVATION OF HUMAN ENDOTHELIAL CELLS IN VITRO AND IN VIVO. Transplantation, 1996, 62, 819-827.	0.5	39
158	Frequent loss of RAF kinase inhibitor protein expression in acute myeloid leukemia. Leukemia, 2012, 26, 1842-1849.	3.3	38
159	Regulation of human myoblast differentiation by PEBP4. EMBO Reports, 2009, 10, 278-284.	2.0	37
160	Protein kinase C-zeta reverts v-raf transformation of NIH-3T3 cells.. Genes and Development, 1996, 10, 1455-1466.	2.7	36
161	Transcriptional Repression of Telomerase RNA Gene Expression by c-Jun-NH2-Kinase and Sp1/Sp3. Cancer Research, 2006, 66, 1363-1370.	0.4	36
162	Integrative omics reveals MYCN as a global suppressor of cellular signalling and enables network-based therapeutic target discovery in neuroblastoma. Oncotarget, 2015, 6, 43182-43201.	0.8	36

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163	An Integrated Global Analysis of Compartmentalized HRAS Signaling. Cell Reports, 2019, 26, 3100-3115.e7.	2.9	36
164	Proteomics and phosphoproteomics for the mapping of cellular signalling networks. Proteomics, 2008, 8, 4402-4415.	1.3	35
165	A Hippo in the ointment: MST signalling beyond the fly. Cell Cycle, 2008, 7, 879-884.	1.3	35
166	A Brain-Derived Neurotrophic Factor Mimetic Is Sufficient to Restore Cone Photoreceptor Visual Function in an Inherited Blindness Model. Scientific Reports, 2017, 7, 11320.	1.6	35
167	Lapatinib potentiates cytotoxicity of ÂYM155 in neuroblastoma via inhibition of the ABCB1 efflux transporter. Scientific Reports, 2017, 7, 3091.	1.6	35
168	Probing structure and function of the raf protein kinase domain with monoclonal antibodies. Oncogene, 1990, 5, 713-20.	2.6	35
169	Inferring signaling pathway topologies from multiple perturbation measurements of specific biochemical species. Science Signaling, 2010, 3, ra20.	1.6	35
170	Integrating Bayesian variable selection with Modular Response Analysis to infer biochemical network topology. BMC Systems Biology, 2013, 7, 57.	3.0	34
171	Microarray-Formatted Clinical Biomarker Assay Development Using Peptide Aptamers to Anterior Gradient-2. Biochemistry, 2007, 46, 13742-13751.	1.2	33
172	Switches, Excitable Responses and Oscillations in the Ring1B/Bmi1 Ubiquitination System. PLoS Computational Biology, 2011, 7, e1002317.	1.5	33
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