Walter Kolch

List of Publications by Year
in descending order

304 papers	31,505 citations	3334 91 h-index	4885 168 g-index
318 all docs	318 docs citations	318 times ranked	31523 citing authors

#	Article	IF	Citations
1	Analysis of Alternative mRNA Splicing in Vemurafenib-Resistant Melanoma Cells. Biomolecules, 2022, 12, 993.	4.0	2
2	Systems biology approaches to macromolecules: the role of dynamic protein assemblies in information processing. Current Opinion in Structural Biology, 2021, 67, 61-68.	5.7	2
3	The Ins and Outs of RAS Effector Complexes. Biomolecules, 2021, 11, 236.	4.0	27
4	Signaling Dynamics Regulating Crosstalks between T-Cell Activation and Immune Checkpoints. Trends in Cell Biology, 2021, 31, 224-235.	7.9	16
5	Hidden Targets in RAF Signalling Pathways to Block Oncogenic RAS Signalling. Genes, 2021, 12, 553.	2.4	13
6	A Chemo-Genomic Approach Identifies Diverse Epigenetic Therapeutic Vulnerabilities in MYCN-Amplified Neuroblastoma. Frontiers in Cell and Developmental Biology, 2021, 9, 612518.	3.7	4
7	Personalized Medicine for Neuroblastoma: Moving from Static Genotypes to Dynamic Simulations of Drug Response. Journal of Personalized Medicine, 2021, 11, 395.	2.5	5
8	A systematic analysis of signaling reactivation and drug resistance. Cell Reports, 2021, 35, 109157.	6.4	17
9	KBoost: a new method to infer gene regulatory networks from gene expression data. Scientific Reports, 2021, 11, 15461.	3.3	8
10	Emerging RAS-directed therapies for cancer. , 2021, 4, 543-558.		8
11	498â€...Metastatic high grade serous ovarian cancer has an immune excluded tumor microenvironment â€“ explaining failure of immunotherapy to date. , 2021, , .		0
12	Characterisation of HRas local signal transduction networks using engineered site-specific exchange factors. Small GTPases, 2020, 11, 371-383.	1.6	9
13	Loss of RAF kinase inhibitor protein is involved in myelomonocytic differentiation and aggravates RAS-driven myeloid leukemogenesis. Haematologica, 2020, 105, 375-386.	3.5	11
14	Extensive rewiring of the EGFR network in colorectal cancer cells expressing transforming levels of KRASG13D. Nature Communications, 2020, 11, 499.	12.8	42
15	RASSF1A Tumour Suppressor: Target the Network for Effective Cancer Therapy. Cancers, 2020, 12, 229.	3.7	32
16	Accurate prediction of kinase-substrate networks using knowledge graphs. PLoS Computational Biology, 2020, 16, e1007578.	3.2	19
17	Targeting MAPK Signaling in Cancer: Mechanisms of Drug Resistance and Sensitivity. International Journal of Molecular Sciences, 2020, 21, 1102.	4.1	408
18	Periodic propagating waves coordinate RhoGTPase network dynamics at the leading and trailing edges during cell migration. ELife, 2020, 9, .	6.0	40

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19	The future of genomics in Ireland â€“ focus on genomics for health. HRB Open Research, 2020, 3, 89.	0.6	1
20	Accurate prediction of kinase-substrate networks using knowledge graphs. , 2020, 16, e1007578.		0
21	Accurate prediction of kinase-substrate networks using knowledge graphs. , 2020, 16, e1007578.		0
22	Accurate prediction of kinase-substrate networks using knowledge graphs. , 2020, 16, e1007578.		0
23	Accurate prediction of kinase-substrate networks using knowledge graphs. , 2020, 16, e1007578.		0
24	Accurate prediction of kinase-substrate networks using knowledge graphs. , 2020, 16, e1007578.		0
25	Accurate prediction of kinase-substrate networks using knowledge graphs. , 2020, 16, e1007578.		0
26	An Integrative Computational Approach for a Prioritization of Key Transcription Regulators Associated With Nanomaterial-Induced Toxicity. Toxicological Sciences, 2019, 171, 303-314.	3.1	10
27	All over the place: deciphering HRAS signaling from different subcellular compartments. Molecular and Cellular Oncology, 2019, 6, e1605821.	0.7	0
28	Transcriptional and metabolic rewiring of colorectal cancer cells expressing the oncogenic KRASG13D mutation. British Journal of Cancer, 2019, 121, 37-50.	6.4	41
29	Targeting promiscuous heterodimerization overcomes innate resistance to ERBB2 dimerization inhibitors in breast cancer. Breast Cancer Research, 2019, 21, 43.	5.0	33
30	An Integrated Global Analysis of Compartmentalized HRAS Signaling. Cell Reports, 2019, 26, 3100-3115.e7.	6.4	36
31	Metabolic stress regulates ERK activity by controlling KSRâ€RAF heterodimerization. EMBO Reports, 2018, 19, 320-336.	4.5	11
32	Systems biology: old news or new stimulus for biochemistry. Essays in Biochemistry, 2018, 62, 483-486.	4.7	0
33	From oncogenic mutation to dynamic code. Science, 2018, 361, 844-845.	12.6	6
34	Identification of a MYCN and Wnt-related VANGL2-ITLN1 fusion gene in neuroblastoma. Gene Reports, 2018, 12, 187-200.	0.8	1
35	Dissecting RAF Inhibitor Resistance by Structure-based Modeling Reveals Ways to Overcome Oncogenic RAS Signaling. Cell Systems, 2018, 7, 161-179.e14.	6.2	53
36	ALIX Regulates Tumor-Mediated Immunosuppression by Controlling EGFR Activity and PD-L1 Presentation. Cell Reports, 2018, 24, 630-641.	6.4	103

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37	A-RAF. , 2018, , 391-399.		0
38	Vascular Endothelial Growth Factor (VEGF) Promotes Assembly of the p130Cas Interactome to Drive Endothelial Chemotactic Signaling and Angiogenesis. Molecular and Cellular Proteomics, 2017, 16, 168-180.	3.8	25
39	Retinoic acid and TGF-Î² signalling cooperate to overcome MYCN-induced retinoid resistance. Genome Medicine, 2017, 9, 15.	8.2	29
40	Spatial regulation of ARAF controls the MST2-Hippo pathway. Small GTPases, 2017, 10, 1-6.	1.6	7
41	A Brain-Derived Neurotrophic Factor Mimetic Is Sufficient to Restore Cone Photoreceptor Visual Function in an Inherited Blindness Model. Scientific Reports, 2017, 7, 11320.	3.3	35
42	Lapatinib potentiates cytotoxicity of ÂYM155 in neuroblastoma via inhibition of the ABCB1 efflux transporter. Scientific Reports, 2017, 7, 3091.	3.3	35
43	Viva Europa, a Land of Excellence in Research and Innovation for Health and Wellbeing. Progress in Preventive Medicine (New York, N Y), 2017, 2, e006.	0.7	6
44	Next Generation RNA Sequencing Analysis Reveals Expression of a Transient EMT Profile During Early Organization of MCF10A Cells in 3D. Methods in Molecular Biology, 2017, 1501, 233-243.	0.9	1
45	05.02â€...Differentiating patient responses in rheumatoid arthritis â€“ systems analysis of key molecular networks. , 2017, , .		0
46	Personalized Computational Models as Biomarkers. Journal of Personalized Medicine, 2017, 7, 9.	2.5	15
47	Identification of potential new treatment response markers and therapeutic targets using a Gaussian process-based method in lapatinib insensitive breast cancer models. PLoS ONE, 2017, 12, e0177058.	2.5	2
48	Proteomics analysis of bladder cancer invasion: Targeting EIF3D for therapeutic intervention. Oncotarget, 2017, 8, 69435-69455.	1.8	27
49	A novel RNA sequencing data analysis method for cell line authentication. PLoS ONE, 2017, 12, e0171435.	2.5	25
50	SARAH Domain-Mediated MST2-RASSF Dimeric Interactions. PLoS Computational Biology, 2016, 12, e1005051.	3.2	15
51	Stabilization of C-RAF:KSR1 complex by DiRas3 reduces availability of C-RAF for dimerization with B-RAF. Cellular Signalling, 2016, 28, 1451-1462.	3.6	6
52	BGRMI: A method for inferring gene regulatory networks from time-course gene expression data and its application in breast cancer research. Scientific Reports, 2016, 6, 37140.	3.3	31
53	Comparison of different statistical approaches for urinary peptide biomarker detection in the context of coronary artery disease. BMC Bioinformatics, 2016, 17, 496.	2.6	6
54	Phosphorylation of RAF Kinase Dimers Drives Conformational Changes that Facilitate Transactivation. Angewandte Chemie, 2016, 128, 995-998.	2.0	0

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55	MAPK kinase signalling dynamics regulate cell fate decisions and drug resistance. Current Opinion in Structural Biology, 2016, 41, 151-158.	5.7	72
56	Integrating network reconstruction with mechanistic modeling to predict cancer therapies. Science Signaling, 2016, 9, ra114.	3.6	63
57	Mesenchymal Stromal Cells Protect Endothelial Cells from Cytotoxic T Lymphocyteâ€Induced Lysis. Scandinavian Journal of Immunology, 2016, 84, 158-164.	2.7	7
58	Autophosphorylation on S614 inhibits the activity and the transforming potential of BRAF. Cellular Signalling, 2016, 28, 1432-1439.	3.6	6
59	The spatiotemporal regulation of RAS signalling. Biochemical Society Transactions, 2016, 44, 1517-1522.	3.4	20
60	Bistability in the Rac1, PAK, and RhoA Signaling Network Drives Actin Cytoskeleton Dynamics and Cell Motility Switches. Cell Systems, 2016, 2, 38-48.	6.2	159
61	Phosphorylation of RAF Kinase Dimers Drives Conformational Changes that Facilitate Transactivation. Angewandte Chemie - International Edition, 2016, 55, 983-986.	13.8	43
62	Differential localization of A-Raf regulates MST2-mediated apoptosis during epithelial differentiation. Cell Death and Differentiation, 2016, 23, 1283-1295.	11.2	17
63	A microfluidic dual gradient generator for conducting cell-based drug combination assays. Integrative Biology (United Kingdom), 2016, 8, 39-49.	1.3	25
64	MST2-RASSF proteinâ€“protein interactions through SARAH domains. Briefings in Bioinformatics, 2016, 17, 593-602.	6.5	13
65	Wnt signalling is a bi-directional vulnerability of cancer cells. Oncotarget, 2016, 7, 60310-60331.	1.8	31
66	A-RAF. , 2016, , 1-10.		0
67	ROCK activity and the Gî²î³ complex mediate chemotactic migration of mouse bone marrow-derived stromal cells. Stem Cell Research and Therapy, 2015, 6, 136.	5.5	10
68	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.	1.8	36
69	Mitogen-Inducible Gene-6 Mediates Feedback Inhibition from Mutated BRAF towards the Epidermal Growth Factor Receptor and Thereby Limits Malignant Transformation. PLoS ONE, 2015, 10, e0129859.	2.5	8
70	Network-based identification of feedback modules that control RhoA activity and cell migration. Journal of Molecular Cell Biology, 2015, 7, 242-252.	3.3	20
71	Signaling pathway models as biomarkers: Patient-specific simulations of JNK activity predict the survival of neuroblastoma patients. Science Signaling, 2015, 8, ra130.	3.6	140
72	Signalling mechanisms regulating phenotypic changes in breast cancer cells. Bioscience Reports, 2015, 35, .	2.4	9

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73	Silence on the relevant literature and errors in implementation. Nature Biotechnology, 2015, 33, 336-339.	17.5	14
74	Measuring Transcription Rate Changes via Time-Course 4-Thiouridine Pulse-Labelling Improves Transcriptional Target Identification. Journal of Molecular Biology, 2015, 427, 3368-3374.	4.2	13
75	The dynamic control of signal transduction networks in cancer cells. Nature Reviews Cancer, 2015, 15, 515-527.	28.4	282
76	Proteinâ€“protein interactions generate hidden feedback and feed-forward loops to trigger bistable switches, oscillations and biphasic doseâ€“responses. Molecular BioSystems, 2015, 11, 2750-2762.	2.9	30
77	Competing to coordinate cell fate decisions: the MST2-Raf-1 signaling device. Cell Cycle, 2015, 14, 189-199.	2.6	23
78	Mechanochemical Stimulation of MCF7 Cells with Rodâ€Shaped Feâ€“Au Janus Particles Induces Cell Death Through Paradoxical Hyperactivation of ERK. Advanced Healthcare Materials, 2015, 4, 395-404.	7.6	26
79	Advances in dynamic modeling of colorectal cancer signaling-network regions, a path toward targeted therapies. Oncotarget, 2015, 6, 5041-5058.	1.8	24
80	Evaluating Strategies to Normalise Biological Replicates of Western Blot Data. PLoS ONE, 2014, 9, e87293.	2.5	174
81	On-Beads Digestion in Conjunction with Data-Dependent Mass Spectrometry: A Shortcut to Quantitative and Dynamic Interaction Proteomics. Biology, 2014, 3, 320-332.	2.8	126
82	Navigating the Multilayered Organization of Eukaryotic Signaling: A New Trend in Data Integration. PLoS Computational Biology, 2014, 10, e1003385.	3.2	9
83	Robustness and Evolvability of the Human Signaling Network. PLoS Computational Biology, 2014, 10, e1003763.	3.2	23
84	One Hippo and many masters: differential regulation of the Hippo pathway in cancer. Biochemical Society Transactions, 2014, 42, 816-821.	3.4	12
85	Molecular mechanisms of asymmetric RAF dimer activation. Biochemical Society Transactions, 2014, 42, 784-790.	3.4	28
86	Quantification of Functionalised Gold Nanoparticle-Targeted Knockdown of Gene Expression in HeLa Cells. PLoS ONE, 2014, 9, e99458.	2.5	8
87	The APC Network Regulates the Removal of Mutated Cells from Colonic Crypts. Cell Reports, 2014, 7, 94-103.	6.4	19
88	Mig-6 participates in the regulation of cell senescence and retinoblastoma protein phosphorylation. Cellular Signalling, 2014, 26, 1870-1877.	3.6	7
89	Systems biology-embedded target validation: improving efficacy in drug discovery. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2014, 6, 1-11.	6.6	19
90	In vitro study of the interaction of heregulin-functionalized magneticâ€“optical nanorods with MCF7 and MDA-MB-231 cells. Faraday Discussions, 2014, 175, 189-201.	3.2	1

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91	Protein interaction switches coordinate Raf-1 and MST2/Hippo signalling. Nature Cell Biology, 2014, 16, 673-684.	10.3	138
92	HGF Induces Epithelial-to-Mesenchymal Transition by Modulating the Mammalian Hippo/MST2 and ISG15 Pathways. Journal of Proteome Research, 2014, 13, 2874-2886.	3.7	82
93	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.	4.1	73
94	Nonlinear signalling networks and cell-to-cell variability transform external signals into broadly distributed or bimodal responses. Journal of the Royal Society Interface, 2014, 11, 20140383.	3.4	24
95	Basic fibroblast growth factor modifies the hypoxic response of human bone marrow stromal cells by ERK-mediated enhancement of HIF-1Î± activity. Stem Cell Research, 2014, 12, 646-658.	0.7	19
96	Splicing factor hnRNP A2 activates the Ras-MAPK-ERK pathway by controlling A-Raf splicing in hepatocellular carcinoma development. Rna, 2014, 20, 505-515.	3.5	95
97	Regulation of the MAPK Pathway by Raf Kinase Inhibitory Protein. Critical Reviews in Oncogenesis, 2014, 19, 405-415.	0.4	24
98	Integrating Bayesian variable selection with Modular Response Analysis to infer biochemical network topology. BMC Systems Biology, 2013, 7, 57.	3.0	34
99	Control of the G-protein cascade dynamics by GDP dissociation inhibitors. Molecular BioSystems, 2013, 9, 2454.	2.9	16
100	Extracellular Signal-Regulated Kinase Regulates RhoA Activation and Tumor Cell Plasticity by Inhibiting Guanine Exchange Factor H1 Activity. Molecular and Cellular Biology, 2013, 33, 4526-4537.	2.3	30
101	When ubiquitination meets phosphorylation: a systems biology perspective of EGFR/MAPK signalling. Cell Communication and Signaling, 2013, 11, 52.	6.5	154
102	It takes two to tango â€“ signalling by dimeric Raf kinases. Molecular BioSystems, 2013, 9, 551-558.	2.9	39
103	Raf kinase inhibitor protein expression combined with peritoneal involvement and lymphovascular invasion predicts prognosis in <scp>D</scp>ukes' <scp>B</scp> colorectal cancer patients. Histopathology, 2013, 62, 505-510.	2.9	16
104	Big Signals from Small Particles: Regulation of Cell Signaling Pathways by Nanoparticles. Chemical Reviews, 2013, 113, 3391-3406.	47.7	146
105	Imatinib-dependent tyrosine phosphorylation profiling of Bcr-Abl-positive chronic myeloid leukemia cells. Leukemia, 2013, 27, 743-746.	7.2	23
106	Systems medicine: helping us understand the complexity of disease. QJM - Monthly Journal of the Association of Physicians, 2013, 106, 891-895.	0.5	30
107	Systems medicine: opportunities and challenges for systems biology approaches. FEBS Journal, 2013, 280, 5937-5937.	4.7	4
108	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.	7.1	49

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109	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
110	The Differential Effects of Wild-Type and Mutated K-Ras on MST2 Signaling Are Determined by K-Ras Activation Kinetics. Molecular and Cellular Biology, 2013, 33, 1859-1868.	2.3	31
111	Crosstalk and Signaling Switches in Mitogen-Activated Protein Kinase Cascades. Frontiers in Physiology, 2012, 3, 355.	2.8	137
112	ERK2 drives tumour cell migration in 3D microenvironments by suppressing expression of Rab17 and Liprin-Î²2. Journal of Cell Science, 2012, 125, 1465-77.	2.0	56
113	Eukaryotic Translation Initiation Factor 3, Subunit a, Regulates the Extracellular Signal-Regulated Kinase Pathway. Molecular and Cellular Biology, 2012, 32, 88-95.	2.3	33
114	Mammalian protein expression noise: scaling principles and the implications for knockdown experiments. Molecular BioSystems, 2012, 8, 3068.	2.9	15
115	A 19S proteasomal subunit cooperates with an ERK MAPK-regulated degron to regulate accumulation of Fra-1 in tumour cells. Oncogene, 2012, 31, 1817-1824.	5.9	27
116	Cell Type-Specific Activation of AKT and ERK Signaling Pathways by Small Negatively-Charged Magnetic Nanoparticles. Scientific Reports, 2012, 2, 868.	3.3	48
117	Computational Approaches for Analyzing Information Flow in Biological Networks. Science Signaling, 2012, 5, re1.	3.6	152
118	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
119	Frequent loss of RAF kinase inhibitor protein expression in acute myeloid leukemia. Leukemia, 2012, 26, 1842-1849.	7.2	38
120	Alpha-2-Macroglobulin Receptor (A2MR). , 2012, , 100-100.		0
121	An Integrated Bayesian Framework for Identifying Phosphorylation Networks in Stimulated Cells. Advances in Experimental Medicine and Biology, 2012, 736, 59-80.	1.6	7
122	The topology design principles that determine the spatiotemporal dynamics of G-protein cascades. Molecular BioSystems, 2012, 8, 730.	2.9	33
123	Unique Reporter-Based Sensor Platforms to Monitor Signalling in Cells. PLoS ONE, 2012, 7, e50521.	2.5	4
124	Understanding Cell Fate Decisions by Identifying Crucial System Dynamics. SIMAI Springer Series, 2012, , 83-104.	0.4	0
125	RAF kinase inhibitory protein (RKIP) modulates cell cycle kinetics and motility. Molecular BioSystems, 2011, 7, 928-941.	2.9	58
126	Mutant K-Ras Activation of the Proapoptotic MST2 Pathway Is Antagonized by Wild-Type K-Ras. Molecular Cell, 2011, 44, 893-906.	9.7	127

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127	Linear Approaches to Intramolecular FÃ¶rster Resonance Energy Transfer Probe Measurements for Quantitative Modeling. PLoS ONE, 2011, 6, e27823.	2.5	18
128	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.	3.6	89
129	The secret life of kinases: functions beyond catalysis. Cell Communication and Signaling, 2011, 9, 23.	6.5	154
130	Raf Kinase Inhibitor Protein RKIP Enhances Signaling by Glycogen Synthase Kinase-3Î². Cancer Research, 2011, 71, 1334-1343.	0.9	124
131	c-Myc Regulates RNA Splicing of the A-Raf Kinase and Its Activation of the ERK Pathway. Cancer Research, 2011, 71, 4664-4674.	0.9	61
132	Biology using engineering tools. Cell Cycle, 2011, 10, 2069-2076.	2.6	18
133	Raf Family Kinases: Old Dogs Have Learned New Tricks. Genes and Cancer, 2011, 2, 232-260.	1.9	322
134	Switches, Excitable Responses and Oscillations in the Ring1B/Bmi1 Ubiquitination System. PLoS Computational Biology, 2011, 7, e1002317.	3.2	33
135	Effects of RKIP Loss in Human and in Animal Models of Colorectal Cancer. Forum on Immunopathological Diseases and Therapeutics, 2011, 2, 111-118.	0.1	0
136	Identification of potential HLA class I and class II epitope precursors associated with heat shock protein 70 (HSPA). Cell Stress and Chaperones, 2010, 15, 729-741.	2.9	16
137	Addressing the Challenge of Defining Valid Proteomic Biomarkers and Classifiers. BMC Bioinformatics, 2010, 11, 594.	2.6	108
138	The Bcrâ€“Abl kinase regulates the actin cytoskeleton via a GADS/Slp-76/Nck1 adaptor protein pathway. Cellular Signalling, 2010, 22, 848-856.	3.6	13
139	Comprehensive human urine standards for comparability and standardization in clinical proteome analysis. Proteomics - Clinical Applications, 2010, 4, 464-478.	1.6	139
140	The RASSF8 candidate tumor suppressor inhibits cell growth and regulates the Wnt and NF-ÎºB signaling pathways. Oncogene, 2010, 29, 4307-4316.	5.9	83
141	Functional proteomics to dissect tyrosine kinase signalling pathways in cancer. Nature Reviews Cancer, 2010, 10, 618-629.	28.4	185
142	Signalling ballet in space and time. Nature Reviews Molecular Cell Biology, 2010, 11, 414-426.	37.0	563
143	Proapoptotic Kinase MST2 Coordinates Signaling Crosstalk between RASSF1A, Raf-1, and Akt. Cancer Research, 2010, 70, 1195-1203.	0.9	99
144	The Renilla luciferase gene as a reference gene for normalization of gene expression in transiently transfected cells. BMC Molecular Biology, 2010, 11, 103.	3.0	15

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145	The Mammalian MAPK/ERK Pathway Exhibits Properties of a Negative Feedback Amplifier. Science Signaling, 2010, 3, ra90.	3.6	216
146	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.	0.9	138
147	Heterogeneous Nuclear Ribonucleoprotein H Blocks MST2-Mediated Apoptosis in Cancer Cells by Regulating a-raf Transcription. Cancer Research, 2010, 70, 1679-1688.	0.9	82
148	Inferring Signaling Pathway Topologies from Multiple Perturbation Measurements of Specific Biochemical Species. Science Signaling, 2010, 3, ra20.	3.6	101
149	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.	3.6	84
150	Naturally Occurring Human Urinary Peptides for Use in Diagnosis of Chronic Kidney Disease. Molecular and Cellular Proteomics, 2010, 9, 2424-2437.	3.8	434
151	Recommendations for Biomarker Identification and Qualification in Clinical Proteomics. Science Translational Medicine, 2010, 2, 46ps42.	12.4	273
152	On-chip immunoprecipitation for protein purification. Lab on A Chip, 2010, 10, 2805.	6.0	23
153	Investigating dynamics of inhibitory and feedback loops in ERK signalling using power-law models. Molecular BioSystems, 2010, 6, 2174.	2.9	24
154	Loss of RAF Kinase Inhibitor Protein Is a Frequent Event In Acute Myeloid Leukemia with a Monocytic Phenotype and Cooperates with Mutant RAS In Malignant Transformation. Blood, 2010, 116, 4185-4185.	1.4	5
155	Inferring signaling pathway topologies from multiple perturbation measurements of specific biochemical species. Science Signaling, 2010, 3, ra20.	3.6	35
156	Pachinko biology: Gambling on single cells. , 2009, , .		0
157	Theoretical and experimental analysis links isoformâ€•specific ERK signalling to cell fate decisions. Molecular Systems Biology, 2009, 5, 334.	7.2	72
158	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.	2.3	74
159	When RASSF1A RAN into tumor suppression: Ran GTPase is a RASSF1A effector involved in controlling microtubule organization. Cell Cycle, 2009, 8, 3796-3797.	2.6	4
160	Multiple roles of the NFâ€?B signaling pathway regulated by coupled negative feedback circuits. FASEB Journal, 2009, 23, 2796-2802.	0.5	20
161	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.	2.0	162
162	Computational modelling of cancerous mutations in the EGFR/ERK signalling pathway. BMC Systems Biology, 2009, 3, 100.	3.0	54

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164	The C-terminus of Raf-1 acts as a 14-3-3-dependent activation switch. Cellular Signalling, 2009, 21, 1645-1651.	3.6	44
165	Role of inhibitory proteins as modulators of oscillations in NFÎºB signalling. IET Systems Biology, 2009, 3, 59-76.	1.5	14
166	Regulation of human myoblast differentiation by PEBP4. EMBO Reports, 2009, 10, 278-284.	4.5	37
167	Cell fate decisions are specified by the dynamic ERK interactome. Nature Cell Biology, 2009, 11, 1458-1464.	10.3	264
168	RASSF2 associates with and stabilizes the proapoptotic kinase MST2. Oncogene, 2009, 28, 2988-2998.	5.9	77
169	Exploration of homodimer receptor: homodimer protein interactions. International Journal of Bioinformatics Research and Applications, 2009, 5, 447.	0.2	2
170	Chip-Based Dynamic Real-Time Quantification of Drug-Induced Cytotoxicity in Human Tumor Cells. Analytical Chemistry, 2009, 81, 6952-6959.	6.5	51
171	Microfluidic single cell arrays to interrogate signalling dynamics of individual, patient-derived hematopoietic stem cells. Lab on A Chip, 2009, 9, 2659.	6.0	134
172	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.	2.3	80
173	Proteomics and phosphoproteomics for the mapping of cellular signalling networks. Proteomics, 2008, 8, 4402-4415.	2.2	35
174	CEâ€MS analysis of the human urinary proteome for biomarker discovery and disease diagnostics. Proteomics - Clinical Applications, 2008, 2, 964-973.	1.6	178
175	Snail is a repressor of RKIP transcription in metastatic prostate cancer cells. Oncogene, 2008, 27, 2243-2248.	5.9	179
176	Mutationally activated K-ras 4A and 4B both mediate lung carcinogenesis. Experimental Cell Research, 2008, 314, 1105-1114.	2.6	29
177	Dynamics of receptor and protein transducer homodimerisation. BMC Systems Biology, 2008, 2, 92.	3.0	9
178	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.	3.6	49
179	Lab-on-a-chip technologies for proteomic analysis from isolated cells. Journal of the Royal Society Interface, 2008, 5, S123-30.	3.4	54
180	Giving Space to Cell Signaling. Cell, 2008, 133, 566-567.	28.9	23

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181	Defining systems biology: through the eyes of a biochemist. IET Systems Biology, 2008, 2, 5-7.	1.5	9
182	Computational modelling reveals feedback redundancy within the epidermal growth factor receptor/extracellular-signal regulated kinase signalling pathway. IET Systems Biology, 2008, 2, 173-183.	1.5	16
183	A Hippo in the ointment: MST signalling beyond the fly. Cell Cycle, 2008, 7, 879-884.	2.6	35
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