

Stephen M Keyse

List of Publications by Year in descending order

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78
papers

9,982
citations

57631

44
h-index

76769

74
g-index

80
all docs

80
docs citations

80
times ranked

9462
citing authors

#	ARTICLE	IF	CITATIONS
1	Heme oxygenase is the major 32-kDa stress protein induced in human skin fibroblasts by UVA radiation, hydrogen peroxide, and sodium arsenite.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 99-103.	3.3	1,215
2	Protein phosphatases and the regulation of mitogen-activated protein kinase signalling. Current Opinion in Cell Biology, 2000, 12, 186-192.	2.6	755
3	Differential regulation of MAP kinase signalling by dual-specificity protein phosphatases. Oncogene, 2007, 26, 3203-3213.	2.6	686
4	Oxidative stress and heat shock induce a human gene encoding a protein-tyrosine phosphatase. Nature, 1992, 359, 644-647.	13.7	657
5	Nuclear translocation of p42/p44 mitogen-activated protein kinase is required for growth factor-induced gene expression and cell cycle entry. EMBO Journal, 1999, 18, 664-674.	3.5	533
6	Dual-specificity MAP kinase phosphatases (MKPs). FEBS Journal, 2013, 280, 489-504.	2.2	429
7	Dual-specificity MAP kinase phosphatases (MKPs) and cancer. Cancer and Metastasis Reviews, 2008, 27, 253-261.	2.7	417
8	Inactivation of p42 MAP kinase by protein phosphatase 2A and a protein tyrosine phosphatase, but not CL100, in various cell lines. Current Biology, 1995, 5, 283-295.	1.8	344
9	Diverse physiological functions for dual-specificity MAP kinase phosphatases. Journal of Cell Science, 2006, 119, 4607-4615.	1.2	302
10	New trends in photobiology the interaction of UVA radiation with cultured cells. Journal of Photochemistry and Photobiology B: Biology, 1990, 4, 349-361.	1.7	254
11	Distinct Binding Determinants for ERK2/p38 and JNK MAP Kinases Mediate Catalytic Activation and Substrate Selectivity of MAP Kinase Phosphatase-1. Journal of Biological Chemistry, 2001, 276, 16491-16500.	1.6	242
12	An emerging family of dual specificity MAP kinase phosphatases. Biochimica Et Biophysica Acta - Molecular Cell Research, 1995, 1265, 152-160.	1.9	240
13	Membrane Proximal ERK Signaling Is Required for M-calpain Activation Downstream of Epidermal Growth Factor Receptor Signaling. Journal of Biological Chemistry, 2001, 276, 23341-23348.	1.6	186
14	The regulation of oncogenic Ras/ERK signalling by dual-specificity mitogen activated protein kinase phosphatases (MKPs). Seminars in Cell and Developmental Biology, 2016, 50, 125-132.	2.3	181
15	Specific Inactivation and Nuclear Anchoring of Extracellular Signal-Regulated Kinase 2 by the Inducible Dual-Specificity Protein Phosphatase DUSP5. Molecular and Cellular Biology, 2005, 25, 1830-1845.	1.1	175
16	Transcriptional Induction of MKP-1 in Response to Stress Is Associated with Histone H3 Phosphorylation-Acetylation. Molecular and Cellular Biology, 2001, 21, 8213-8224.	1.1	172
17	Negative-feedback regulation of FGF signalling by DUSP6/MKP-3 is driven by ERK1/2 and mediated by Ets factor binding to a conserved site within the <i>DUSP6</i>/<i>MKP</i>-<i>3</i> gene promoter. Biochemical Journal, 2008, 412, 287-298.	1.7	167
18	Negative Feedback Regulation of FGF Signaling Levels by Pyst1/MKP3 in Chick Embryos. Current Biology, 2003, 13, 1009-1018.	1.8	162

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19	Crystal structure of the MAPK phosphatase Pyst1 catalytic domain and implications for regulated activation. <i>Nature Structural Biology</i> , 1999, 6, 174-181.	9.7	141
20	Protein phosphatases and the regulation of MAP kinase activity. <i>Seminars in Cell and Developmental Biology</i> , 1998, 9, 143-152.	2.3	140
21	Activation of MK5/PRAK by the atypical MAP kinase ERK3 defines a novel signal transduction pathway. <i>EMBO Journal</i> , 2004, 23, 4780-4791.	3.5	136
22	CL100/MKP-1 modulates JNK activation and apoptosis in response to cisplatin. <i>Oncogene</i> , 2000, 19, 5142-5152.	2.6	128
23	Induction of the heme oxygenase gene in human skin fibroblasts by hydrogen peroxide and UVA (365) Tj ETQq1 1 0.784314 rgBT /Over	1.3	122
24	Mutagenesis by hydrogen peroxide treatment of mammalian cells: a molecular analysis. <i>Carcinogenesis</i> , 1990, 11, 283-293.	1.3	119
25	Both Nuclear-Cytoplasmic Shuttling of the Dual Specificity Phosphatase MKP-3 and Its Ability to Anchor MAP Kinase in the Cytoplasm Are Mediated by a Conserved Nuclear Export Signal. <i>Journal of Biological Chemistry</i> , 2004, 279, 41882-41891.	1.6	117
26	Amino acid sequence similarity between CL100, a dual-specificity MAP kinase phosphatase and cdc25. <i>Trends in Biochemical Sciences</i> , 1993, 18, 377-378.	3.7	98
27	Feedback interactions between MKP3 and ERK MAP kinase control scleraxis expression and the specification of rib progenitors in the developing chick somite. <i>Development (Cambridge)</i> , 2005, 132, 1305-1314.	1.2	97
28	Regulation of the inducible nuclear dual-specificity phosphatase DUSP5 by ERK MAPK. <i>Cellular Signalling</i> , 2009, 21, 1794-1805.	1.7	97
29	Dual-specificity MAP kinase phosphatases in health and disease. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 124-143.	1.9	93
30	Reversible Protein Phosphorylation Modulates Nucleotide Excision Repair of Damaged DNA by Human Cell Extracts. <i>Nucleic Acids Research</i> , 1996, 24, 433-440.	6.5	77
31	Both Binding and Activation of p38 Mitogen-Activated Protein Kinase (MAPK) Play Essential Roles in Regulation of the Nucleocytoplasmic Distribution of MAPK-Activated Protein Kinase 5 by Cellular Stress. <i>Molecular and Cellular Biology</i> , 2002, 22, 6931-6945.	1.1	77
32	Regulation of MAPK-activated Protein Kinase 5 Activity and Subcellular Localization by the Atypical MAPK ERK4/MAPK4. <i>Journal of Biological Chemistry</i> , 2006, 281, 35499-35510.	1.6	77
33	ACTION SPECTRA FOR INACTIVATION OF NORMAL and XERODERMA PIGMENTOSUM HUMAN SKIN FIBROBLASTS BY ULTRAVIOLET RADIATIONS. <i>Photochemistry and Photobiology</i> , 1983, 37, 307-312.	1.3	75
34	The spectrum of mutations generated by passage of a hydrogen peroxide damaged shuttle vector plasmid through a mammalian host. <i>Nucleic Acids Research</i> , 1989, 17, 8301-8312.	6.5	75
35	DUSP6/MKP-3 inactivates ERK1/2 but fails to bind and inactivate ERK5. <i>Cellular Signalling</i> , 2008, 20, 836-843.	1.7	70
36	The Dual-Specificity Protein Phosphatase DUSP9/MKP-4 Is Essential for Placental Function but Is Not Required for Normal Embryonic Development. <i>Molecular and Cellular Biology</i> , 2005, 25, 8323-8333.	1.1	67

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37	The integrin $\alpha 6 \beta 4$ drives pancreatic cancer through diverse mechanisms and represents an effective target for therapy. <i>Journal of Pathology</i> , 2019, 249, 332-342.	2.1	66
38	Dual-specificity phosphatase 5 regulates nuclear ERK activity and suppresses skin cancer by inhibiting mutant Harvey-Ras (HRas ^{Q61L})-driven SerpinB2 expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18267-18272.	3.3	64
39	Cross-talk between the p38 β and JNK MAPK Pathways Mediated by MAP Kinase Phosphatase-1 Determines Cellular Sensitivity to UV Radiation. <i>Journal of Biological Chemistry</i> , 2010, 285, 25928-25940.	1.6	63
40	Dual-specificity phosphatase 5 controls the localized inhibition, propagation, and transforming potential of ERK signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E317-E326.	3.3	63
41	Regulation of <i>Caenorhabditis elegans</i> p53/CEP-1-Dependent Germ Cell Apoptosis by Ras/MAPK Signaling. <i>PLoS Genetics</i> , 2011, 7, e1002238.	1.5	62
42	Heat Shock Factor 1 Is a Substrate for p38 Mitogen-Activated Protein Kinases. <i>Molecular and Cellular Biology</i> , 2016, 36, 2403-2417.	1.1	61
43	Expression of the ERK-specific MAP kinase phosphatase PYST1/MKP3 in mouse embryos during morphogenesis and early organogenesis. <i>Mechanisms of Development</i> , 2002, 113, 193-196.	1.7	55
44	Characterization of a murine gene encoding a developmentally regulated cytoplasmic dual-specificity mitogen-activated protein kinase phosphatase. <i>Biochemical Journal</i> , 2002, 364, 145-155.	1.7	46
45	Synergistic activation of the <i>mkp-1</i> gene by protein kinase A signaling and USF, but not c-Myc. <i>FEBS Letters</i> , 2000, 474, 146-150.	1.3	44
46	Negative feedback predominates over cross-regulation to control ERK MAPK activity in response to FGF signalling in embryos. <i>FEBS Letters</i> , 2006, 580, 4242-4245.	1.3	44
47	Redox-mediated substrate recognition by Sdp1 defines a new group of tyrosine phosphatases. <i>Nature</i> , 2007, 447, 487-492.	13.7	42
48	Docking of PRAK/MK5 to the Atypical MAPKs ERK3 and ERK4 Defines a Novel MAPK Interaction Motif. <i>Journal of Biological Chemistry</i> , 2009, 284, 19392-19401.	1.6	36
49	YIL113w encodes a functional dual-specificity protein phosphatase which specifically interacts with and inactivates the Slk2/Mpk1p MAP kinase in <i>S. cerevisiae</i> . <i>FEBS Letters</i> , 2002, 527, 186-192.	1.3	32
50	MAP Kinase Inactivation Is Required Only for G2-M Phase Transition in Early Embryogenesis Cell Cycles of the Starfishes <i>Marthasterias glacialis</i> and <i>Astropecten aranciacus</i> . <i>Developmental Biology</i> , 1998, 202, 1-13.	0.9	30
51	The role of protein phosphatases in the regulation of mitogen and stress-activated protein kinases. <i>Free Radical Research</i> , 1999, 31, 341-349.	1.5	30
52	Regulation of atypical MAP kinases ERK3 and ERK4 by the phosphatase DUSP2. <i>Scientific Reports</i> , 2017, 7, 43471.	1.6	28
53	The Ser186 phospho-acceptor site within ERK4 is essential for its ability to interact with and activate PRAK/MK5. <i>Biochemical Journal</i> , 2008, 411, 613-622.	1.7	27
54	Spatio-temporal regulation of mitogen-activated protein kinase (MAPK) signalling by protein phosphatases. <i>Biochemical Society Transactions</i> , 2006, 34, 842-845.	1.6	26

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55	Rapidly occurring DNA excision repair events determine the biological expression of u.v.-induced damage in human cells. <i>Carcinogenesis</i> , 1987, 8, 1251-1256.	1.3	25
56	Gene Trap Mice Reveal an Essential Function of Dual Specificity Phosphatase Dusp16/MKP-7 in Perinatal Survival and Regulation of Toll-like Receptor (TLR)-induced Cytokine Production. <i>Journal of Biological Chemistry</i> , 2014, 289, 2112-2126.	1.6	23
57	Evidence that novobiocin and nalidixic acid do not inhibit excision repair in u.v.-irradiated human skin fibroblasts at a pre-incision step. <i>Carcinogenesis</i> , 1985, 6, 1231-1233.	1.3	21
58	The CL100 gene, which encodes a dual specificity (Tyr/Thr) MAP kinase phosphatase, is highly conserved and maps to human chromosome 5q34. <i>Human Genetics</i> , 1994, 93, 513-6.	1.8	21
59	Does MK5 reconcile classical and atypical MAP kinases?. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 4617.	3.0	21
60	Phosphorylation of the Kinase Interaction Motif in Mitogen-activated Protein (MAP) Kinase Phosphatase-4 Mediates Cross-talk between Protein Kinase A and MAP Kinase Signaling Pathways. <i>Journal of Biological Chemistry</i> , 2011, 286, 38018-38026.	1.6	17
61	Excision repair in permeable arrested human skin fibroblasts damaged by UV (254 nm) radiation: Evidence that \hat{I}^{\pm} - and \hat{I}^2 -polymerases act sequentially at the repolymerisation step. <i>Mutation Research - DNA Repair Reports</i> , 1985, 146, 109-119.	1.9	15
62	Distinct Docking Mechanisms Mediate Interactions between the Msg5 Phosphatase and Mating or Cell Integrity Mitogen-activated Protein Kinases (MAPKs) in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 42037-42050.	1.6	15
63	New insights into the activation interaction partners and possible functions of MK5 PRAK. <i>Frontiers in Bioscience - Landmark</i> , 2016, 21, 374-384.	3.0	13
64	The Response of Normal and Ataxia-telangiectasia Human Fibroblasts to the Lethal Effects of Far, Mid and Near Ultraviolet Radiations. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1985, 48, 975-985.	1.0	10
65	DUSP5-mediated inhibition of smooth muscle cell proliferation suppresses pulmonary hypertension and right ventricular hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H382-H389.	1.5	10
66	Suppression of mutant Kirsten-RAS (KRASG12D)-driven pancreatic carcinogenesis by dual-specificity MAP kinase phosphatases 5 and 6. <i>Oncogene</i> , 2022, 41, 2811-2823.	2.6	10
67	The regulation of stress-activated MAP kinase signalling by protein phosphatases. , 2007, , 33-49.		9
68	Selective Expression of the MAPK Phosphatase Dusp9/MKP-4 in Mouse Plasmacytoid Dendritic Cells and Regulation of IFN- \hat{I}^2 Production. <i>Journal of Immunology</i> , 2015, 195, 1753-1762.	0.4	8
69	Jamming the signals. <i>Human and Experimental Toxicology</i> , 1995, 14, 618-619.	1.1	6
70	Visualizing and Quantitating the Spatiotemporal Regulation of Ras/ERK Signaling by Dual-Specificity Mitogen-Activated Protein Phosphatases (MKPs). <i>Methods in Molecular Biology</i> , 2016, 1447, 197-215.	0.4	4
71	Excision Repair in u.v. (254 nm) Damaged Non-dividing Human Skin Fibroblasts: A Major Biological Role for DNA Polymerase Alpha. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1985, 48, 723-735.	1.0	3
72	Preface. <i>Cancer and Metastasis Reviews</i> , 2008, 27, 121-122.	2.7	2

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73	<scp>BRAF</scp> inhibitor resistance: are holidays and cocktails the answer?. Pigment Cell and Melanoma Research, 2014, 27, 693-695.	1.5	2
74	Lines of communication. Journal of Cell Science, 2002, 115, 4391-4391.	1.2	1
75	Dual-Specificity Map Kinase (MAPK) Phosphatases (MKPs) and Their Involvement in Cancer. , 2016, , 201-231.		1
76	Activation of MK5/PRAK by the atypical MAP kinase ERK3 defines a novel signal transduction pathway. EMBO Journal, 2005, 24, 873-874.	3.5	0
77	MAP Kinase Phosphatases. , 2010, , 755-769.		0
78	INDUCIBLE CELLULAR DEFENSE AGAINST OXIDATIVE STRESS IN CULTURED HUMAN CELLS. , 1991, , 19-24.		0