Piero Crespo

List of Publications by Year
in descending order

91 papers	7,734 citations	38 h-index	87 g-index
97 all docs	97 docs citations	97 times ranked	7445 citing authors

87888

49909

#	Article	IF	Citations
1	The small GTP-binding proteins Rac1 and Cdc42regulate the activity of the JNK/SAPK signaling pathway. Cell, 1995, 81, 1137-1146.	28.9	1,668
2	Ras-dependent activation of MAP kinase pathway mediated by G-protein Î²Î³ subunits. Nature, 1994, 369, 418-420.	27.8	816
3	Phosphotyrosine-dependent activation of Rac-1 GDP/GTP exchange by the vav proto-oncogene product. Nature, 1997, 385, 169-172.	27.8	736
4	Linkage of G Protein-Coupled Receptors to the MAPK Signaling Pathway Through PI 3-Kinase Â. Science, 1997, 275, 394-397.	12.6	671
5	Dual Effect of Î²-Adrenergic Receptors on Mitogen-activated Protein Kinase. Journal of Biological Chemistry, 1995, 270, 25259-25265.	3.4	214
6	Erk5 Participates in Neuregulin Signal Transduction and Is Constitutively Active in Breast Cancer Cells Overexpressing ErbB2. Molecular and Cellular Biology, 2002, 22, 270-285.	2.3	163
7	Ras proteins in the control of the cell cycle and cell differentiation. Cellular and Molecular Life Sciences, 2000, 57, 1613-1636.	5.4	160
8	The Small GTP-binding Protein Rho Activates c-Jun N-terminal Kinases/Stress-activated Protein Kinases in Human Kidney 293T Cells. Journal of Biological Chemistry, 1996, 271, 25731-25734.	3.4	157
9	Fast regulation of AP-1 activity through interaction of lamin A/C, ERK1/2, and c-Fos at the nuclear envelope. Journal of Cell Biology, 2008, 183, 653-666.	5.2	153
10	Essential Role of ERK Dimers in the Activation of Cytoplasmic but Not Nuclear Substrates by ERK-Scaffold Complexes. Molecular Cell, 2008, 31, 708-721.	9.7	133
11	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
12	Phosphorylation of p38 by GRK2 at the Docking Groove Unveils a Novel Mechanism for Inactivating p38MAPK. Current Biology, 2006, 16, 2042-2047.	3.9	124
13	Small Molecule Inhibition of ERK Dimerization Prevents Tumorigenesis by RAS-ERK Pathway Oncogenes. Cancer Cell, 2015, 28, 170-182.	16.8	120
14	Distinct Utilization of Effectors and Biological Outcomes Resulting from Site-Specific Ras Activation: Ras Functions in Lipid Rafts and Golgi Complex Are Dispensable for Proliferation and Transformation. Molecular and Cellular Biology, 2006, 26, 100-116.	2.3	110
15	Differences on the Inhibitory Specificities of H-Ras, K-Ras, and N-Ras (N17) Dominant Negative Mutants Are Related to Their Membrane Microlocalization. Journal of Biological Chemistry, 2003, 278, 4572-4581.	3.4	102
16	Ras Subcellular Localization Defines Extracellular Signal-Regulated Kinase 1 and 2 Substrate Specificity through Distinct Utilization of Scaffold Proteins. Molecular and Cellular Biology, 2009, 29, 1338-1353.	2.3	100
17	Mechanisms of action of vitamin D in colon cancer. Journal of Steroid Biochemistry and Molecular Biology, 2019, 185, 1-6.	2.5	94
18	The small GTP-binding protein, Rhes, regulates signal transduction from G protein-coupled receptors. Oncogene, 2004, 23, 559-568.	5.9	93

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19	Cbl-b, a member of the Sli-1/c-Cbl protein family, inhibits Vav-mediated c-Jun N-terminal kinase activation. Oncogene, 1997, 15, 2511-2520.	5.9	87
20	Activation of H-Ras in the Endoplasmic Reticulum by the RasGRF Family Guanine Nucleotide Exchange Factors. Molecular and Cellular Biology, 2004, 24, 1516-1530.	2.3	87
21	Spatial control of Cdc42 signalling by a GM130â€"RasGRF complex regulates polarity and tumorigenesis. Nature Communications, 2014, 5, 4839.	12.8	79
22	RasGRF suppresses Cdc42-mediated tumour cell movement, cytoskeletal dynamics and transformation. Nature Cell Biology, 2011, 13, 819-826.	10.3	73
23	ERK1/2 MAP kinases promote cell cycle entry by rapid, kinase-independent disruption of retinoblastomaâ€"lamin A complexes. Journal of Cell Biology, 2010, 191, 967-979.	5.2	71
24	The Rasâ€ERK pathway: Understanding siteâ€specific signaling provides hope of new antiâ€tumor therapies. BioEssays, 2010, 32, 412-421.	2.5	70
25	Vav mediates Ras stimulation by direct activation of the GDP/GTP exchange factor Ras GRP1. EMBO Journal, 2003, 22, 3326-3336.	7.8	68
26	Ras and Rap Signal Bidirectional Synaptic Plasticity via Distinct Subcellular Microdomains. Neuron, 2018, 98, 783-800.e4.	8.1	68
27	Identification and Chromosomal Location of Two Human Genes Encoding Enzymes Potentially Involved in Proteolytic Maturation of Farnesylated Proteins. Genomics, 1999, 58, 270-280.	2.9	55
28	H-, K- and N-Ras inhibit myeloid leukemia cell proliferation by a p21WAF1-dependent mechanism. Oncogene, 2000, 19, 783-790.	5.9	53
29	Subcellular Localization Determines the Protective Effects of Activated ERK2 against Distinct Apoptogenic Stimuli in Myeloid Leukemia Cells. Journal of Biological Chemistry, 2004, 279, 32813-32823.	3.4	51
30	ERK dimers and scaffold proteins: Unexpected partners for a forgotten (cytoplasmic) task. Cell Cycle, 2009, 8, 1007-1013.	2.6	50
31	Ras, an Actor on Many Stages: Posttranslational Modifications, Localization, and Site-Specified Events. Genes and Cancer, 2011, 2, 182-194.	1.9	49
32	Mxi2 promotes stimulus-independent ERK nuclear translocation. EMBO Journal, 2007, 26, 635-646.	7.8	48
33	Signal transduction elements of TC21, an oncogenic member of the R-Ras subfamily of GTP-binding proteins. Oncogene, 1999, 18, 5860-5869.	5.9	47
34	p38Î± Isoform Mxi2 Binds to Extracellular Signal-Regulated Kinase 1 and 2 Mitogen-Activated Protein Kinase and Regulates Its Nuclear Activity by Sustaining Its Phosphorylation Levels. Molecular and Cellular Biology, 2003, 23, 3079-3090.	2.3	45
35	Working Without Kinase Activity: Phosphotransfer-Independent Functions of Extracellular Signalâ€"Regulated Kinases. Science Signaling, 2011, 4, re3.	3.6	45
36	Proteinâ€"Protein Interactions: Emerging Oncotargets in the RAS-ERK Pathway. Trends in Cancer, 2018, 4, 616-633.	7.4	44

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37	The RAS-ERK pathway: A route for couples. Science Signaling, 2018, 11, .	3.6	42
38	The Rho Family GTPase Cdc42 Regulates the Activation of Ras/MAP Kinase by the Exchange Factor Ras-GRF. Journal of Biological Chemistry, 2000, 275, 26441-26448.	3.4	40
39	Myc Antagonizes Ras-mediated Growth Arrest in Leukemia Cells through the Inhibition of the Ras-ERK-p21Cip1 Pathway. Journal of Biological Chemistry, 2005, 280, 1112-1122.	3.4	37
40	Protein kinase C-zeta reverts v-raf transformation of NIH-3T3 cells.. Genes and Development, 1996, 10, 1455-1466.	5.9	36
41	An Integrated Global Analysis of Compartmentalized HRAS Signaling. Cell Reports, 2019, 26, 3100-3115.e7.	6.4	36
42	Maintenance of Cdc42 GDP-bound State by Rho-GDI Inhibits MAP Kinase Activation by the Exchange Factor Ras-GRF. Journal of Biological Chemistry, 2001, 276, 21878-21884.	3.4	32
43	Myeloid Leukemia Cell Growth and Differentiation Are Independent of Mitogen-activated Protein Kinase ERK1/2 Activation. Journal of Biological Chemistry, 2000, 275, 7189-7197.	3.4	31
44	c-Myc Inhibits Ras-Mediated Differentiation of Pheochromocytoma Cells by Blocking c-Jun Up-Regulation. Molecular Cancer Research, 2008, 6, 325-339.	3.4	30
45	Lysine methylation in cancer: SMYD3â€MAP3K2 teaches us new lessons in the Rasâ€ERK pathway. BioEssays, 2014, 36, 1162-1169.	2.5	30
46	H-Ras Distribution and Signaling in Plasma Membrane Microdomains Are Regulated by Acylation and Deacylation Events. Molecular and Cellular Biology, 2015, 35, 1898-1914.	2.3	30
47	Transcriptomal profiling of site-specific Ras signals. Cellular Signalling, 2007, 19, 2264-2276.	3.6	26
48	Stress-Induced Activation of c-Jun N-Terminal Kinase in Sensory Ganglion Neurons: Accumulation in Nuclear Domains Enriched in Splicing Factors and Distribution in Perichromatin Fibrils. Experimental Cell Research, 2000, 256, 179-191.	2.6	25
49	Distinct carboxy-termini confer divergent characteristics to the mitogen-activated protein kinase p38Î± and its splice isoform Mxi2. FEBS Letters, 2000, 474, 169-174.	2.8	24
50	Regulators of the RAS-ERK pathway as therapeutic targets in thyroid cancer. Endocrine-Related Cancer, 2019, 26, R319-R344.	3.1	24
51	Induction of apolipoprotein E gene expression in human and experimental atherosclerotic lesions. Biochemical and Biophysical Research Communications, 1990, 168, 733-740.	2.1	23
52	Overexpression of Mammalian Protein Kinase C-Î¶ Does Not Affect the Growth Characteristics of NIH 3T3 Cells. Biochemical and Biophysical Research Communications, 1995, 213, 266-272.	2.1	23
53	Defined spatiotemporal features of RAS-ERK signals dictate cell fate in MCF-7 mammary epithelial cells. Molecular Biology of the Cell, 2016, 27, 1958-1968.	2.1	23
54	Lysophosphatidic acid rescues RhoA activation and phosphoinositides levels in astrocytes exposed to ethanol. Journal of Neurochemistry, 2007, 102, 1044-1052.	3.9	22

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55	ARID2 deficiency promotes tumor progression and is associated with higher sensitivity to chemotherapy in lung cancer. Oncogene, 2021, 40, 2923-2935.	5.9	22
56	ERK Signals: Scaffolding Scaffolds?. Frontiers in Cell and Developmental Biology, 2016, 4, 49.	3.7	21
57	Activation of Ras and Rho GTPases and MAP Kinases by G-Protein-Coupled Receptors. Methods in Molecular Biology, 2010, 661, 137-150.	0.9	21
58	The pathway connecting m2 receptors to the nucleus involves small GTP-binding proteins acting on divergent map kinase cascades. Life Sciences, 1997, 60, 999-1006.	4.3	19
59	New druggable targets in the Ras pathway?. Current Opinion in Molecular Therapeutics, 2010, 12, 674-83.	2.8	19
60	RAS at the Golgi antagonizes malignant transformation through PTPRÎº-mediated inhibition of ERK activation. Nature Communications, 2018, 9, 3595.	12.8	18
61	RAS GTPase-dependent pathways in developmental diseases: old guys, new lads, and current challenges. Current Opinion in Cell Biology, 2018, 55, 42-51.	5.4	18
62	Analysis of IncF plasmids evolution: nucleotide sequence of an IncFIII replication region. Gene, 1989, 78, 183-187.	2.2	16
63	The small GTPase N-Ras regulates extracellular matrix synthesis, proliferation and migration in fibroblasts. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 2734-2744.	4.1	16
64	Role of the cAMP and MAPK pathways in the transformation of mouse 3T3 fibroblasts by a TSHR gene constitutively activated by point mutation. Oncogene, 2000, 19, 4896-4905.	5.9	15
65	Mxi2 sustains ERK1/2 phosphorylation in the nucleus by preventing ERK1/2 binding to phosphatases. Biochemical Journal, 2012, 441, 571-578.	3.7	13
66	Metallothionein-3 promotes cisplatin chemoresistance remodelling in neuroblastoma. Scientific Reports, 2021, 11, 5496.	3.3	13
67	Structural and Spatial Determinants Regulating TC21 Activation by RasGRF Family Nucleotide Exchange Factors. Molecular Biology of the Cell, 2009, 20, 4289-4302.	2.1	12
68	Absence of Kâ€Ras Reduces Proliferation and Migration But Increases Extracellular Matrix Synthesis in Fibroblasts. Journal of Cellular Physiology, 2016, 231, 2224-2235.	4.1	12
69	Foam cells from aorta and spleen overexpress apolipoprotein E in the absence of hypercholesterolemia. Biochemical and Biophysical Research Communications, 1992, 183, 514-523.	2.1	11
70	Apolipoprotein E expression in the cerebellum of normal and hypercholesterolemic rabbits. Molecular Brain Research, 1994, 21, 115-123.	2.3	10
71	RAC1 induces nuclear alterations through the LINC complex to enhance melanoma invasiveness. Molecular Biology of the Cell, 2020, 31, 2768-2778.	2.1	10
72	RAS Dimers: The Novice Couple at the RAS-ERK Pathway Ball. Genes, 2021, 12, 1556.	2.4	10

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73	Characterisation of HRas local signal transduction networks using engineered site-specific exchange factors. Small GTPases, 2020, 11, 371-383.	1.6	9
74	Hypercholesterolemia induces differential expression of rabbit apolipoprotein A and C genes. Atherosclerosis, 1992, 95, 95-103.	0.8	8
75	Analysis of Rhes Activation State and Effector Function. Methods in Enzymology, 2006, 407, 535-542.	1.0	8
76	PGA1-induced apoptosis involves specific activation of H-Ras and N-Ras in cellular endomembranes. Cell Death and Disease, 2016, 7, e2311-e2311.	6.3	7
77	Transforming G Protein-Coupled Receptors Block Insulin andras-Induced Adipocytic Differentiation in 3T3-L1 Cells: Evidence for a PKC and MAP Kinase Independent Pathway. Biochemical and Biophysical Research Communications, 1998, 245, 554-561.	2.1	6
78	Activation of MAPKs by G Protein-Coupled Receptors. , 2004, 250, 203-210.		6
79	Analysis of Ras/ERK Compartmentalization by Subcellular Fractionation. Methods in Molecular Biology, 2017, 1487, 151-162.	0.9	6
80	Expression of apolipoprotein e in cholesterol-loaded macrophages of extrahepatic tissues during experimental hypercholesterolemia. Life Sciences, 1995, 56, 1865-1875.	4.3	5
81	Ras and Rho GTPases on the move. Bioarchitecture, 2011, 1, 200-204.	1.5	5
82	Analysis of ERKsâ€™ Dimerization by Electrophoresis. Methods in Molecular Biology, 2010, 661, 335-342.	0.9	5
83	Induction of apolipoprotein E expression during erythroid differentiation of human K562 leukemia cells. Leukemia Research, 1993, 17, 771-776.	0.8	3
84	RAS Subcellular Localization Inversely Regulates Thyroid Tumor Growth and Dissemination. Cancers, 2020, 12, 2588.	3.7	3
85	The Rho guanosine nucleotide exchange factors Vav2 and Vav3 modulate epidermal stem cell function. Oncogene, 2022, 41, 3341-3354.	5.9	3
86	Downregulation of hepatic albumin mRNA in response to induced hypercholesterolemia in rabbits. Lipids and Lipid Metabolism, 1992, 1128, 77-82.	2.6	1
87	Tumors topple when ERKs uncouple. Molecular and Cellular Oncology, 2016, 3, e1091875.	0.7	1
88	Phosphorylation of p38 by GRK2 at the entrance of its docking domain reveals a novel type of p38 inhibition. Journal of Molecular and Cellular Cardiology, 2007, 42, S51.	1.9	0
89	ERK1/2 MAP kinases promote cell cycle entry by rapid, kinase-independent disruption of retinoblastomaâ€“lamin A complexes. Journal of Cell Biology, 2011, 192, 201-201.	5.2	0
90	Editorial overview: Macromolecular assemblies: clues from structural insights. Current Opinion in Structural Biology, 2021, 67, vi-viii.	5.7	0

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91	p38 mitogen-activated protein kinases: their role in carcinogenesis. , 2003, 5, 320-330.		0