

Piero Crespo

List of Publications by Year in descending order

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91
papers

7,734
citations

87723

38
h-index

49773

87
g-index

97
all docs

97
docs citations

97
times ranked

7445
citing authors

#	ARTICLE	IF	CITATIONS
1	The small GTP-binding proteins Rac1 and Cdc42 regulate the activity of the JNK/SAPK signaling pathway. <i>Cell</i> , 1995, 81, 1137-1146.	13.5	1,668
2	Ras-dependent activation of MAP kinase pathway mediated by G-protein $\beta\gamma$ subunits. <i>Nature</i> , 1994, 369, 418-420.	13.7	816
3	Phosphotyrosine-dependent activation of Rac-1 GDP/GTP exchange by the vav proto-oncogene product. <i>Nature</i> , 1997, 385, 169-172.	13.7	736
4	Linkage of G Protein-Coupled Receptors to the MAPK Signaling Pathway Through PI 3-Kinase β . <i>Science</i> , 1997, 275, 394-397.	6.0	671
5	Dual Effect of β_2 -Adrenergic Receptors on Mitogen-activated Protein Kinase. <i>Journal of Biological Chemistry</i> , 1995, 270, 25259-25265.	1.6	214
6	Erk5 Participates in Neuregulin Signal Transduction and Is Constitutively Active in Breast Cancer Cells Overexpressing ErbB2. <i>Molecular and Cellular Biology</i> , 2002, 22, 270-285.	1.1	163
7	Ras proteins in the control of the cell cycle and cell differentiation. <i>Cellular and Molecular Life Sciences</i> , 2000, 57, 1613-1636.	2.4	160
8	The Small GTP-binding Protein Rho Activates c-Jun N-terminal Kinases/Stress-activated Protein Kinases in Human Kidney 293T Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 25731-25734.	1.6	157
9	Fast regulation of AP-1 activity through interaction of lamin A/C, ERK1/2, and c-Fos at the nuclear envelope. <i>Journal of Cell Biology</i> , 2008, 183, 653-666.	2.3	153
10	Essential Role of ERK Dimers in the Activation of Cytoplasmic but Not Nuclear Substrates by ERK-Scaffold Complexes. <i>Molecular Cell</i> , 2008, 31, 708-721.	4.5	133
11	Mutant K-Ras Activation of the Proapoptotic MST2 Pathway Is Antagonized by Wild-Type K-Ras. <i>Molecular Cell</i> , 2011, 44, 893-906.	4.5	127
12	Phosphorylation of p38 by GRK2 at the Docking Groove Unveils a Novel Mechanism for Inactivating p38MAPK. <i>Current Biology</i> , 2006, 16, 2042-2047.	1.8	124
13	Small Molecule Inhibition of ERK Dimerization Prevents Tumorigenesis by RAS-ERK Pathway Oncogenes. <i>Cancer Cell</i> , 2015, 28, 170-182.	7.7	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. <i>Molecular and Cellular Biology</i> , 2006, 26, 100-116.	1.1	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. <i>Journal of Biological Chemistry</i> , 2003, 278, 4572-4581.	1.6	102
16	Ras Subcellular Localization Defines Extracellular Signal-Regulated Kinase 1 and 2 Substrate Specificity through Distinct Utilization of Scaffold Proteins. <i>Molecular and Cellular Biology</i> , 2009, 29, 1338-1353.	1.1	100
17	Mechanisms of action of vitamin D in colon cancer. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019, 185, 1-6.	1.2	94
18	The small GTP-binding protein, Rhes, regulates signal transduction from G protein-coupled receptors. <i>Oncogene</i> , 2004, 23, 559-568.	2.6	93

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19	Cbl-b, a member of the Shc-1/c-Cbl protein family, inhibits Vav-mediated c-Jun N-terminal kinase activation. <i>Oncogene</i> , 1997, 15, 2511-2520.	2.6	87
20	Activation of H-Ras in the Endoplasmic Reticulum by the RasGRF Family Guanine Nucleotide Exchange Factors. <i>Molecular and Cellular Biology</i> , 2004, 24, 1516-1530.	1.1	87
21	Spatial control of Cdc42 signalling by a GM130-RasGRF complex regulates polarity and tumorigenesis. <i>Nature Communications</i> , 2014, 5, 4839.	5.8	79
22	RasGRF suppresses Cdc42-mediated tumour cell movement, cytoskeletal dynamics and transformation. <i>Nature Cell Biology</i> , 2011, 13, 819-826.	4.6	73
23	ERK1/2 MAP kinases promote cell cycle entry by rapid, kinase-independent disruption of retinoblastoma-lamin A complexes. <i>Journal of Cell Biology</i> , 2010, 191, 967-979.	2.3	71
24	The Ras-ERK pathway: Understanding site-specific signaling provides hope of new anti-tumor therapies. <i>BioEssays</i> , 2010, 32, 412-421.	1.2	70
25	Vav mediates Ras stimulation by direct activation of the GDP/GTP exchange factor Ras GRP1. <i>EMBO Journal</i> , 2003, 22, 3326-3336.	3.5	68
26	Ras and Rap Signal Bidirectional Synaptic Plasticity via Distinct Subcellular Microdomains. <i>Neuron</i> , 2018, 98, 783-800.e4.	3.8	68
27	Identification and Chromosomal Location of Two Human Genes Encoding Enzymes Potentially Involved in Proteolytic Maturation of Farnesylated Proteins. <i>Genomics</i> , 1999, 58, 270-280.	1.3	55
28	H-, K- and N-Ras inhibit myeloid leukemia cell proliferation by a p21WAF1-dependent mechanism. <i>Oncogene</i> , 2000, 19, 783-790.	2.6	53
29	Subcellular Localization Determines the Protective Effects of Activated ERK2 against Distinct Apoptogenic Stimuli in Myeloid Leukemia Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 32813-32823.	1.6	51
30	ERK dimers and scaffold proteins: Unexpected partners for a forgotten (cytoplasmic) task. <i>Cell Cycle</i> , 2009, 8, 1007-1013.	1.3	50
31	Ras, an Actor on Many Stages: Posttranslational Modifications, Localization, and Site-Specified Events. <i>Genes and Cancer</i> , 2011, 2, 182-194.	0.6	49
32	Mxi2 promotes stimulus-independent ERK nuclear translocation. <i>EMBO Journal</i> , 2007, 26, 635-646.	3.5	48
33	Signal transduction elements of TC21, an oncogenic member of the R-Ras subfamily of GTP-binding proteins. <i>Oncogene</i> , 1999, 18, 5860-5869.	2.6	47
34	p38 β 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. <i>Molecular and Cellular Biology</i> , 2003, 23, 3079-3090.	1.1	45
35	Working Without Kinase Activity: Phosphotransfer-Independent Functions of Extracellular Signal-Regulated Kinases. <i>Science Signaling</i> , 2011, 4, re3.	1.6	45
36	Protein-Protein Interactions: Emerging Oncotargets in the RAS-ERK Pathway. <i>Trends in Cancer</i> , 2018, 4, 616-633.	3.8	44

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37	The RAS-ERK pathway: A route for couples. <i>Science Signaling</i> , 2018, 11, .	1.6	42
38	The Rho Family GTPase Cdc42 Regulates the Activation of Ras/MAP Kinase by the Exchange Factor Ras-GRF. <i>Journal of Biological Chemistry</i> , 2000, 275, 26441-26448.	1.6	40
39	Myc Antagonizes Ras-mediated Growth Arrest in Leukemia Cells through the Inhibition of the Ras-ERK-p21Cip1 Pathway. <i>Journal of Biological Chemistry</i> , 2005, 280, 1112-1122.	1.6	37
40	Protein kinase C-zeta reverts v-raf transformation of NIH-3T3 cells.. <i>Genes and Development</i> , 1996, 10, 1455-1466.	2.7	36
41	An Integrated Global Analysis of Compartmentalized HRAS Signaling. <i>Cell Reports</i> , 2019, 26, 3100-3115.e7.	2.9	36
42	Maintenance of Cdc42 GDP-bound State by Rho-GDI Inhibits MAP Kinase Activation by the Exchange Factor Ras-GRF. <i>Journal of Biological Chemistry</i> , 2001, 276, 21878-21884.	1.6	32
43	Myeloid Leukemia Cell Growth and Differentiation Are Independent of Mitogen-activated Protein Kinase ERK1/2 Activation. <i>Journal of Biological Chemistry</i> , 2000, 275, 7189-7197.	1.6	31
44	c-Myc Inhibits Ras-Mediated Differentiation of Pheochromocytoma Cells by Blocking c-Jun Up-Regulation. <i>Molecular Cancer Research</i> , 2008, 6, 325-339.	1.5	30
45	Lysine methylation in cancer: SMYD3–MAP3K2 teaches us new lessons in the Ras–ERK pathway. <i>BioEssays</i> , 2014, 36, 1162-1169.	1.2	30
46	H-Ras Distribution and Signaling in Plasma Membrane Microdomains Are Regulated by Acylation and Deacylation Events. <i>Molecular and Cellular Biology</i> , 2015, 35, 1898-1914.	1.1	30
47	Transcriptomal profiling of site-specific Ras signals. <i>Cellular Signalling</i> , 2007, 19, 2264-2276.	1.7	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. <i>Experimental Cell Research</i> , 2000, 256, 179-191.	1.2	25
49	Distinct carboxy-termini confer divergent characteristics to the mitogen-activated protein kinase p38– and its splice isoform Mxi2. <i>FEBS Letters</i> , 2000, 474, 169-174.	1.3	24
50	Regulators of the RAS-ERK pathway as therapeutic targets in thyroid cancer. <i>Endocrine-Related Cancer</i> , 2019, 26, R319-R344.	1.6	24
51	Induction of apolipoprotein E gene expression in human and experimental atherosclerotic lesions. <i>Biochemical and Biophysical Research Communications</i> , 1990, 168, 733-740.	1.0	23
52	Overexpression of Mammalian Protein Kinase C-1– Does Not Affect the Growth Characteristics of NIH 3T3 Cells. <i>Biochemical and Biophysical Research Communications</i> , 1995, 213, 266-272.	1.0	23
53	Defined spatiotemporal features of RAS-ERK signals dictate cell fate in MCF-7 mammary epithelial cells. <i>Molecular Biology of the Cell</i> , 2016, 27, 1958-1968.	0.9	23
54	Lysophosphatidic acid rescues RhoA activation and phosphoinositides levels in astrocytes exposed to ethanol. <i>Journal of Neurochemistry</i> , 2007, 102, 1044-1052.	2.1	22

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55	ARID2 deficiency promotes tumor progression and is associated with higher sensitivity to chemotherapy in lung cancer. <i>Oncogene</i> , 2021, 40, 2923-2935.	2.6	22
56	ERK Signals: Scaffolding Scaffolds?. <i>Frontiers in Cell and Developmental Biology</i> , 2016, 4, 49.	1.8	21
57	Activation of Ras and Rho GTPases and MAP Kinases by G-Protein-Coupled Receptors. <i>Methods in Molecular Biology</i> , 2010, 661, 137-150.	0.4	21
58	The pathway connecting m2 receptors to the nucleus involves small GTP-binding proteins acting on divergent map kinase cascades. <i>Life Sciences</i> , 1997, 60, 999-1006.	2.0	19
59	New druggable targets in the Ras pathway?. <i>Current Opinion in Molecular Therapeutics</i> , 2010, 12, 674-83.	2.8	19
60	RAS at the Golgi antagonizes malignant transformation through PTPRÎ ⁹ -mediated inhibition of ERK activation. <i>Nature Communications</i> , 2018, 9, 3595.	5.8	18
61	RAS GTPase-dependent pathways in developmental diseases: old guys, new lads, and current challenges. <i>Current Opinion in Cell Biology</i> , 2018, 55, 42-51.	2.6	18
62	Analysis of IncF plasmids evolution: nucleotide sequence of an IncFIII replication region. <i>Gene</i> , 1989, 78, 183-187.	1.0	16
63	The small GTPase N-Ras regulates extracellular matrix synthesis, proliferation and migration in fibroblasts. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 2734-2744.	1.9	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. <i>Oncogene</i> , 2000, 19, 4896-4905.	2.6	15
65	Mxi2 sustains ERK1/2 phosphorylation in the nucleus by preventing ERK1/2 binding to phosphatases. <i>Biochemical Journal</i> , 2012, 441, 571-578.	1.7	13
66	Metallothionein-3 promotes cisplatin chemoresistance remodelling in neuroblastoma. <i>Scientific Reports</i> , 2021, 11, 5496.	1.6	13
67	Structural and Spatial Determinants Regulating TC21 Activation by RasGRF Family Nucleotide Exchange Factors. <i>Molecular Biology of the Cell</i> , 2009, 20, 4289-4302.	0.9	12
68	Absence of Kâ€Ras Reduces Proliferation and Migration But Increases Extracellular Matrix Synthesis in Fibroblasts. <i>Journal of Cellular Physiology</i> , 2016, 231, 2224-2235.	2.0	12
69	Foam cells from aorta and spleen overexpress apolipoprotein E in the absence of hypercholesterolemia. <i>Biochemical and Biophysical Research Communications</i> , 1992, 183, 514-523.	1.0	11
70	Apolipoprotein E expression in the cerebellum of normal and hypercholesterolemic rabbits. <i>Molecular Brain Research</i> , 1994, 21, 115-123.	2.5	10
71	RAC1 induces nuclear alterations through the LINC complex to enhance melanoma invasiveness. <i>Molecular Biology of the Cell</i> , 2020, 31, 2768-2778.	0.9	10
72	RAS Dimers: The Novice Couple at the RAS-ERK Pathway Ball. <i>Genes</i> , 2021, 12, 1556.	1.0	10

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73	Characterisation of HRas local signal transduction networks using engineered site-specific exchange factors. <i>Small GTPases</i> , 2020, 11, 371-383.	0.7	9
74	Hypercholesterolemia induces differential expression of rabbit apolipoprotein A and C genes. <i>Atherosclerosis</i> , 1992, 95, 95-103.	0.4	8
75	Analysis of Rhes Activation State and Effector Function. <i>Methods in Enzymology</i> , 2006, 407, 535-542.	0.4	8
76	PGA1-induced apoptosis involves specific activation of H-Ras and N-Ras in cellular endomembranes. <i>Cell Death and Disease</i> , 2016, 7, e2311-e2311.	2.7	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. <i>Biochemical and Biophysical Research Communications</i> , 1998, 245, 554-561.	1.0	6
78	Activation of MAPKs by G Protein-Coupled Receptors. , 2004, 250, 203-210.		6
79	Analysis of Ras/ERK Compartmentalization by Subcellular Fractionation. <i>Methods in Molecular Biology</i> , 2017, 1487, 151-162.	0.4	6
80	Expression of apolipoprotein e in cholesterol-loaded macrophages of extrahepatic tissues during experimental hypercholesterolemia. <i>Life Sciences</i> , 1995, 56, 1865-1875.	2.0	5
81	Ras and Rho GTPases on the move. <i>Bioarchitecture</i> , 2011, 1, 200-204.	1.5	5
82	Analysis of ERKsâ€™™ Dimerization by Electrophoresis. <i>Methods in Molecular Biology</i> , 2010, 661, 335-342.	0.4	5
83	Induction of apolipoprotein E expression during erythroid differentiation of human K562 leukemia cells. <i>Leukemia Research</i> , 1993, 17, 771-776.	0.4	3
84	RAS Subcellular Localization Inversely Regulates Thyroid Tumor Growth and Dissemination. <i>Cancers</i> , 2020, 12, 2588.	1.7	3
85	The Rho guanosine nucleotide exchange factors Vav2 and Vav3 modulate epidermal stem cell function. <i>Oncogene</i> , 2022, 41, 3341-3354.	2.6	3
86	Downregulation of hepatic albumin mRNA in response to induced hypercholesterolemia in rabbits. <i>Lipids and Lipid Metabolism</i> , 1992, 1128, 77-82.	2.6	1
87	Tumors topple when ERKs uncouple. <i>Molecular and Cellular Oncology</i> , 2016, 3, e1091875.	0.3	1
88	Phosphorylation of p38 by GRK2 at the entrance of its docking domain reveals a novel type of p38 inhibition. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, S51.	0.9	0
89	ERK1/2 MAP kinases promote cell cycle entry by rapid, kinase-independent disruption of retinoblastomaâ€™™lamin A complexes. <i>Journal of Cell Biology</i> , 2011, 192, 201-201.	2.3	0
90	Editorial overview: Macromolecular assemblies: clues from structural insights. <i>Current Opinion in Structural Biology</i> , 2021, 67, vi-viii.	2.6	0

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