

Juan Carlos Lacal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3309271/publications.pdf>

Version: 2024-02-01

117
papers

6,406
citations

46918

47
h-index

69108

77
g-index

119
all docs

119
docs citations

119
times ranked

6360
citing authors

#	ARTICLE	IF	CITATIONS
1	Overexpression of choline kinase is a frequent feature in human tumor-derived cell lines and in lung, prostate, and colorectal human cancers. <i>Biochemical and Biophysical Research Communications</i> , 2002, 296, 580-583.	1.0	326
2	Novel source of 1,2-diacylglycerol elevated in cells transformed by Ha-ras oncogene. <i>Nature</i> , 1987, 330, 269-272.	13.7	312
3	Rho signals to cell growth and apoptosis. <i>Cancer Letters</i> , 2001, 165, 1-10.	3.2	288
4	Increased choline kinase activity in human breast carcinomas: clinical evidence for a potential novel antitumor strategy. <i>Oncogene</i> , 2002, 21, 4317-4322.	2.6	232
5	Rho GTPase expression in tumorigenesis: Evidence for a significant link. <i>BioEssays</i> , 2005, 27, 602-613.	1.2	211
6	Multiple Signalling Pathways Lead to the Activation of the Nuclear Factor κ B by the Rho Family of GTPases. <i>Journal of Biological Chemistry</i> , 1998, 273, 12779-12785.	1.6	208
7	Choline kinase inhibitors as a novel approach for antiproliferative drug design. <i>Oncogene</i> , 1997, 15, 2289-2301.	2.6	155
8	Rho proteins induce metastatic properties in vivo. <i>Oncogene</i> , 1997, 15, 3047-3057.	2.6	153
9	Orthotopic Microinjection of Human Colon Cancer Cells in Nude Mice Induces Tumor Foci in All Clinically Relevant Metastatic Sites. <i>American Journal of Pathology</i> , 2007, 170, 1077-1085.	1.9	140
10	Expression of choline kinase alpha to predict outcome in patients with early-stage non-small-cell lung cancer: a retrospective study. <i>Lancet Oncology</i> , The, 2007, 8, 889-897.	5.1	140
11	Choline Uptake and Metabolism Modulate Macrophage IL-1 β and IL-18 Production. <i>Cell Metabolism</i> , 2019, 29, 1350-1362.e7.	7.2	140
12	Noninvasive Magnetic Resonance Spectroscopic Pharmacodynamic Markers of the Choline Kinase Inhibitor MN58b in Human Carcinoma Models. <i>Cancer Research</i> , 2006, 66, 427-434.	0.4	135
13	Ras p21 proteins with high or low GTPase activity can efficiently transform NIH3T3 cells. <i>Cell</i> , 1986, 44, 609-617.	13.5	128
14	Choline Kinase Activation Is a Critical Requirement for the Proliferation of Primary Human Mammary Epithelial Cells and Breast Tumor Progression. <i>Cancer Research</i> , 2004, 64, 6732-6739.	0.4	118
15	New Analogues of Amonafide and Elnafide, Containing Aromatic Heterocycles: Synthesis, Antitumor Activity, Molecular Modeling, and DNA Binding Properties. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 1391-1399.	2.9	116
16	Regulation of choline kinase activity by Ras proteins involves RalGDS and PI3K. <i>Oncogene</i> , 2002, 21, 937-946.	2.6	114
17	18 F-Choline Images Murine Atherosclerotic Plaques Ex Vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 584-589.	1.1	111
18	Rho GTPases: potential candidates for anticancer therapy. <i>Cancer Letters</i> , 2004, 206, 181-191.	3.2	106

#	ARTICLE	IF	CITATIONS
19	Simultaneous Tyrosine and Serine Phosphorylation of STAT3 Transcription Factor Is Involved in Rho A GTPase Oncogenic Transformation. <i>Molecular Biology of the Cell</i> , 2001, 12, 3282-3294.	0.9	101
20	Rho-regulated signals induce apoptosis in vitro and in vivo by a p53-independent, but Bcl2 dependent pathway. <i>Oncogene</i> , 1998, 17, 1855-1869.	2.6	92
21	Cell Stress and MEK1-mediated c-Jun Activation Modulate NF κ B Activity and Cell Viability. <i>Molecular Biology of the Cell</i> , 2002, 13, 2933-2945.	0.9	92
22	Generation of phosphorylcholine as an essential event in the activation of Raf-1 and MAP-kinases in growth factors-induced mitogenic stimulation. <i>Journal of Cellular Biochemistry</i> , 1995, 57, 141-149.	1.2	89
23	Differential Role of Human Choline Kinase $\hat{1}$ and $\hat{2}$ Enzymes in Lipid Metabolism: Implications in Cancer Onset and Treatment. <i>PLoS ONE</i> , 2009, 4, e7819.	1.1	88
24	Rho GTPases in human cancer: an unresolved link to upstream and downstream transcriptional regulation. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2004, 1705, 121-132.	3.3	82
25	Inhibition of choline kinase as a specific cytotoxic strategy in oncogene-transformed cells. <i>Oncogene</i> , 2003, 22, 8803-8812.	2.6	81
26	Choline kinase inhibition induces the increase in ceramides resulting in a highly specific and selective cytotoxic antitumoral strategy as a potential mechanism of action. <i>Oncogene</i> , 2004, 23, 8247-8259.	2.6	81
27	Activation of Serum Response Factor by RhoA Is Mediated by the Nuclear Factor- κ B and C/EBP Transcription Factors. <i>Journal of Biological Chemistry</i> , 1999, 274, 8506-8515.	1.6	80
28	Choline Kinase Is a Novel Oncogene that Potentiates RhoA-Induced Carcinogenesis. <i>Cancer Research</i> , 2005, 65, 5647-5653.	0.4	77
29	ROCK and Nuclear Factor- κ B-dependent Activation of Cyclooxygenase-2 by Rho GTPases: Effects on Tumor Growth and Therapeutic Consequences. <i>Molecular Biology of the Cell</i> , 2003, 14, 3041-3054.	0.9	76
30	Choline kinase as a link connecting phospholipid metabolism and cell cycle regulation: Implications in cancer therapy. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 1753-1763.	1.2	74
31	Apoptosis Induced by Rac GTPase Correlates with Induction of FasL and Ceramides Production. <i>Molecular Biology of the Cell</i> , 2000, 11, 4347-4358.	0.9	69
32	TWIST1 Overexpression is Associated with Nodal Invasion and Male Sex in Primary Colorectal Cancer. <i>Annals of Surgical Oncology</i> , 2009, 16, 78-87.	0.7	68
33	Choline kinase inhibition in rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 1399-1407.	0.5	64
34	Choline kinase inhibition induces exacerbated endoplasmic reticulum stress and triggers apoptosis via CHOP in cancer cells. <i>Cell Death and Disease</i> , 2013, 4, e933-e933.	2.7	63
35	Regulation of proliferation and apoptosis by Ras and Rho GTPases through specific phospholipid-dependent signaling. <i>FEBS Letters</i> , 1997, 410, 73-77.	1.3	58
36	Regulation of Akt(ser473) phosphorylation by Choline kinase in breast carcinoma cells. <i>Molecular Cancer</i> , 2009, 8, 131.	7.9	58

#	ARTICLE	IF	CITATIONS
37	The Phosphoinositide 3-Kinase Inhibitor PI-103 Downregulates Choline Kinase $\hat{\pm}$ Leading to Phosphocholine and Total Choline Decrease Detected by Magnetic Resonance Spectroscopy. <i>Cancer Research</i> , 2010, 70, 5507-5517.	0.4	58
38	Phospholipid profiling identifies acyl chain elongation as a ubiquitous trait and potential target for the treatment of lung squamous cell carcinoma. <i>Oncotarget</i> , 2016, 7, 12582-12597.	0.8	58
39	Loss of mouse fibroblast cell response to phorbol esters restored by microinjected protein kinase C. <i>Nature</i> , 1986, 324, 375-377.	13.7	55
40	A critical role for choline kinase- $\hat{\pm}$ in the aggressiveness of bladder carcinomas. <i>Oncogene</i> , 2009, 28, 2425-2435.	2.6	55
41	Symmetrical Bis-Quinolinium Compounds: A New Human Choline Kinase Inhibitors with Antiproliferative Activity against the HT-29 Cell Line. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 3354-3363.	2.9	53
42	Preclinical Characterization of RSM-932A, a Novel Anticancer Drug Targeting the Human Choline Kinase Alpha, an Enzyme Involved in Increased Lipid Metabolism of Cancer Cells. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 31-39.	1.9	53
43	A Critical Role for Rac1 in Tumor Progression of Human Colorectal Adenocarcinoma Cells. <i>American Journal of Pathology</i> , 2008, 172, 156-166.	1.9	52
44	Choline Kinase Alpha Depletion Selectively Kills Tumoral Cells. <i>Current Cancer Drug Targets</i> , 2008, 8, 709-719.	0.8	52
45	Involvement of human choline kinase alpha and beta in carcinogenesis: A different role in lipid metabolism and biological functions. <i>Advances in Enzyme Regulation</i> , 2011, 51, 183-194.	2.9	51
46	Signaling from G Protein-coupled Receptors to the c-jun Promoter Involves the MEF2 Transcription Factor. <i>Journal of Biological Chemistry</i> , 1997, 272, 20691-20697.	1.6	50
47	Cdc42 is highly expressed in colorectal adenocarcinoma and downregulates ID4 through an epigenetic mechanism. <i>International Journal of Oncology</i> , 2008, 33, 185-93.	1.4	49
48	Phosphorylation of ras oncogene product by protein kinase C. <i>Biochemical and Biophysical Research Communications</i> , 1987, 145, 782-788.	1.0	46
49	Relationship between Membrane Integrity and the Inhibition of Host Translation in Virus-Infected Mammalian Cells. <i>Comparative Studies between Encephalomyocarditis Virus and Poliovirus</i> . <i>FEBS Journal</i> , 1982, 127, 359-366.	0.2	45
50	Micro-injection of recombinant lysyl oxidase blocks oncogenic p21-Ha-Ras and progesterone effects on <i>Xenopus laevis</i> oocyte maturation. <i>FEBS Letters</i> , 1997, 419, 63-68.	1.3	45
51	Modulation of phospholipase D by hexadecylphosphorylcholine: a putative novel mechanism for its antitumoral activity. <i>Oncogene</i> , 2001, 20, 1110-1117.	2.6	44
52	Inhibition of ChoK Is an Efficient Antitumor Strategy for Harvey-, Kirsten-, and N-ras-Transformed Cells. <i>Biochemical and Biophysical Research Communications</i> , 2001, 285, 873-879.	1.0	42
53	Screening for new compounds with antiherpes activity. <i>Antiviral Research</i> , 1984, 4, 231-244.	1.9	41
54	Combined 5-FU and ChoK $\hat{\pm}$ Inhibitors as a New Alternative Therapy of Colorectal Cancer: Evidence in Human Tumor-Derived Cell Lines and Mouse Xenografts. <i>PLoS ONE</i> , 2013, 8, e64961.	1.1	41

#	ARTICLE	IF	CITATIONS
55	Antibiotics that specifically block translation in virus-infected cells.. Journal of Antibiotics, 1980, 33, 441-446.	1.0	39
56	STAT5a Activation Mediates the Epithelial to Mesenchymal Transition Induced by Oncogenic RhoA.. Molecular Biology of the Cell, 2003, 14, 40-53.	0.9	39
57	Identification of rho as a substrate for botulinum toxin C3 -catalyzed ADP-ribosylation. FEBS Letters, 1989, 247, 221-226.	1.3	37
58	Searching new targets for anticancer drug design: The families of Ras and Rho GTPases and their effectors. Progress in Molecular Biology and Translational Science, 2001, 67, 193-234.	1.9	36
59	From Ras signalling to ChoK inhibitors: a further advance in anticancer drug design. Cancer Letters, 2004, 206, 137-148.	3.2	36
60	Permeabilization of cells during animal virus infection. , 1983, 23, 109-145.		35
61	LUMO energy of model compounds of bispyridinium compounds as an index for the inhibition of choline kinase. European Journal of Medicinal Chemistry, 2001, 36, 215-225.	2.6	34
62	Quantitative structure-activity relationships for a series of symmetrical bisquaternary anticancer compounds. Bioorganic and Medicinal Chemistry, 2002, 10, 2215-2231.	1.4	34
63	ras-p21 Activates phospholipase D and A2, but not phospholipase C or PKC, inXenopus laevis Oocytes. Journal of Cellular Biochemistry, 1994, 54, 478-486.	1.2	33
64	Analysis of the rasH oncogene and its p21 product in chemically induced skin tumors and tumor-derived cell lines. Carcinogenesis, 1987, 8, 1821-1825.	1.3	32
65	QSAR-Derived Choline Kinase Inhibitors: How Rational can Antiproliferative Drug Design Be?. Current Medicinal Chemistry, 2003, 10, 1095-1112.	1.2	31
66	Approaches for the study of cancer: towards the integration of genomics, proteomics and metabolomics. Clinical and Translational Oncology, 2011, 13, 617-628.	1.2	31
67	Differential effects of phorbol ester on the in vitro invasiveness of malignant and non-malignant human fibroblast cells. Journal of Cellular Physiology, 1990, 142, 55-60.	2.0	30
68	Phospholipase-induced maturation ofXenopus laevis oocytes: Mitogenic activity of generated metabolites. Journal of Cellular Biochemistry, 1993, 52, 440-448.	1.2	30
69	Influence of the Linker in Bispyridium Compounds on the Inhibition of Human Choline Kinase. Journal of Medicinal Chemistry, 2004, 47, 5433-5440.	2.9	29
70	Localization of rap1 and rap2 proteins in the gelatinase-containing granules of human neutrophils. FEBS Letters, 1993, 326, 209-214.	1.3	28
71	Differential expression of Rac1 identifies its target genes and its contribution to progression of colorectal cancer. International Journal of Biochemistry and Cell Biology, 2007, 39, 2289-2302.	1.2	27
72	Activation of phospholipase D by growth factors and oncogenes in murine fibroblasts follow alternative but cross-talking pathways. Biochemical Journal, 1997, 322, 519-528.	1.7	26

#	ARTICLE	IF	CITATIONS
73	Modulation of cellular chemoresistance in keratinocytes by activation of different oncogenes. <i>International Journal of Cancer</i> , 1995, 60, 235-243.	2.3	26
74	Choline Kinase Alpha (CHK \pm) as a Therapeutic Target in Pancreatic Ductal Adenocarcinoma: Expression, Predictive Value, and Sensitivity to Inhibitors. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 323-333.	1.9	25
75	Antiplasmodial Activity and Mechanism of Action of RSM-932A, a Promising Synergistic Inhibitor of <i>Plasmodium falciparum</i> Choline Kinase. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 5878-5888.	1.4	24
76	Agonist-induced phosphorylation of an immunologically ras-related protein in human erythroleukemia cells. <i>Biochemical and Biophysical Research Communications</i> , 1989, 161, 972-978.	1.0	23
77	Choline kinase inhibitory effect and antiproliferative activity of new 1,1 ϵ^2 ,1 ϵ^3 -(benzene-1,3,5-triylmethylene)tris ϵ^4 -[(disubstituted)amino]pyridinium ϵ^7 tribromides. <i>European Journal of Medicinal Chemistry</i> , 2003, 38, 109-116.	2.6	22
78	Ras protein is involved in the physiological regulation of phospholipase D by platelet derived growth factor. <i>Oncogene</i> , 2000, 19, 431-437.	2.6	21
79	Human urine proteomics: building a list of human urine cancer biomarkers. <i>Expert Review of Proteomics</i> , 2011, 8, 347-360.	1.3	21
80	Progesterone but notras requires MPF for in vivo activation of MAPK and S6 KII: MAPK is an essential connexion point of both signaling pathways. <i>Journal of Cellular Biochemistry</i> , 1994, 55, 465-476.	1.2	19
81	Lights and shadows of proteomic technologies for the study of protein species including isoforms, splicing variants and protein post ϵ translational modifications. <i>Proteomics</i> , 2011, 11, 590-603.	1.3	19
82	Upregulation of Trefoil Factor 3 (TFF3) After Rectal Cancer Chemoradiotherapy Is an Adverse Prognostic Factor and a Potential Therapeutic Target. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, 1151-1158.	0.4	19
83	Wortmannin, an inhibitor of phosphatidyl-inositol 3-kinase, induces oocyte maturation through a MPF-MAPK-dependent pathway. <i>FEBS Letters</i> , 1998, 422, 155-159.	1.3	18
84	Activation of phospholipase D by ras proteins is independent of protein kinase C. , 1996, 61, 599-608.		17
85	A new family of choline kinase inhibitors with antiproliferative and antitumor activity derived from natural products. <i>Clinical and Translational Oncology</i> , 2015, 17, 74-84.	1.2	14
86	Phospholipase D and choline kinase: their role in cancer development and their potential as drug targets. <i>Progress in Cell Cycle Research</i> , 2003, 5, 191-201.	0.9	14
87	Inhibition of choline kinase renders a highly selective cytotoxic effect in tumour cells through a mitochondrial independent mechanism. <i>International Journal of Oncology</i> , 2005, 26, 999-1008.	1.4	14
88	Clinical relevance of the transcriptional signature regulated by CDC42 in colorectal cancer. <i>Oncotarget</i> , 2017, 8, 26755-26770.	0.8	12
89	Choline Kinase: An Unexpected Journey for a Precision Medicine Strategy in Human Diseases. <i>Pharmaceutics</i> , 2021, 13, 788.	2.0	11
90	Conformational alterations detected by circular dichroism induced in the normal ras p21 protein by activating point mutations at position 12, 59, or 61. <i>FEBS Journal</i> , 1988, 174, 621-627.	0.2	10

#	ARTICLE	IF	CITATIONS
91	Protein chimerism: Novel source of protein diversity in humans adds complexity to bottom-up proteomics. <i>Proteomics</i> , 2013, 13, 5-11.	1.3	10
92	Choline Kinase Emerges as a Promising Drug Target in Gram-Positive Bacteria. <i>Frontiers in Microbiology</i> , 2019, 6, 2146.	1.5	10
93	Microinjection of acylphosphatase blocks <i>Xenopus laevis</i> oocytes maturation induced by ras-p21. <i>FEBS Letters</i> , 1993, 326, 167-170.	1.3	7
94	Rho GTPases in human carcinogenesis: a tale of excess. , 2003, 5, 70-78.		7
95	Acylphosphatase synergizes with progesterone during maturation of <i>Xenopus laevis</i> oocytes. <i>FEBS Letters</i> , 1993, 327, 265-270.	1.3	6
96	Generation and characterization of monoclonal antibodies against choline kinase alpha and their potential use as diagnostic tools in cancer. <i>International Journal of Oncology</i> , 2006, 29, 335-40.	1.4	6
97	Sensitization of (colon) cancer cells to death receptor related therapies. <i>Cancer Biology and Therapy</i> , 2012, 13, 458-466.	1.5	4
98	Variants in phospholipid metabolism and upstream regulators and non-small cell lung cancer susceptibility. <i>Clinical and Translational Oncology</i> , 2014, 16, 107-112.	1.2	4
99	Identification and validation of novel and more effective choline kinase inhibitors against <i>Streptococcus pneumoniae</i> . <i>Scientific Reports</i> , 2020, 10, 15418.	1.6	4
100	Changing the course of oncogenesis: The development of tyrosine kinase inhibitors. <i>European Journal of Cancer, Supplement</i> , 2006, 4, 14-20.	2.2	3
101	Biological Function of <i>Aplysia californica</i> rho Gene. , 1991, , 237-242.		3
102	A dual choline/phosphocholine colorimetric method for measuring the relative strength of inhibitors of choline kinases of Gram-positive pathogens. <i>Food Science and Applied Biotechnology</i> , 2018, 1, 131.	0.2	3
103	New Editorial Board for <i>Clinical and Translational Oncology</i> . <i>Clinical and Translational Oncology</i> , 2009, 11, 1-1.	1.2	2
104	GTPase. , 2011, , 1609-1613.		2
105	Rho proteins in the regulation of apoptosis. <i>Biology of the Cell</i> , 1999, 91, 549-550.	0.7	1
106	Bad patients meet good drugs. <i>Clinical and Translational Oncology</i> , 2006, 8, 225-227.	1.2	1
107	Regulation of choline kinase activity by Ras proteins involves Ral GDS and PI3K. , 0, .		1
108	Rapid Stimulation of Diacylglycerol Production in <i>Xenopus</i> Oocytes by Microinjection of H-ras p21. <i>Obstetrical and Gynecological Survey</i> , 1988, 43, 417.	0.2	0

#	ARTICLE	IF	CITATIONS
109	Anticancer research: a few hints for discovery of new targets. <i>Cancer Letters</i> , 2004, 206, 125-127.	3.2	0
110	It is about time that Spain launches a National Cancer Act?. <i>Clinical and Translational Oncology</i> , 2006, 8, 841-842.	1.2	0
111	FESEO and Clinical & Translational Oncology: a brief historical perspective. <i>Clinical and Translational Oncology</i> , 2008, 10, 683-684.	1.2	0
112	Clinical and Translational Oncology accepted in SciSearch® and Journal Citation Reports. <i>Clinical and Translational Oncology</i> , 2008, 10, 773-773.	1.2	0
113	<i>Biological Methods for Metabolic Research</i> . , 0, , 54-76.		0
114	Analysis of the Biochemical and Biological Activities of Deletion Mutants of the H-Ras P21 Protein Suggest That Gap is an Essential Component of Its Effector Function. , 1989, , 179-190.		0
115	Ras Proteins as Potential Activators of Protein Kinase C Function. , 1989, , 105-118.		0
116	GTPase. , 2016, , 1968-1973.		0
117	Choline Kinase Inhibitors MN58b and RSM932A Enhances the Antitumor Response to Cisplatin in Lung Tumor Cells. <i>Pharmaceutics</i> , 2022, 14, 1143.	2.0	0