

Francisca MarÃ-a SÃ;nchez JimÃ©nez

List of Publications by Year in descending order

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96
papers

3,721
citations

172457

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138484

58
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97
all docs

97
docs citations

97
times ranked

4799
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of reactive oxygen species in apoptosis: implications for cancer therapy. <i>International Journal of Biochemistry and Cell Biology</i> , 2000, 32, 157-170.	2.8	639
2	KIT mutation in mast cells and other bone marrow hematopoietic cell lineages in systemic mast cell disorders: a prospective study of the Spanish Network on Mastocytosis (REMA) in a series of 113 patients. <i>Blood</i> , 2006, 108, 2366-2372.	1.4	447
3	Monocyte chemoattractant protein-1: A key mediator in inflammatory processes. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 998-1001.	2.8	239
4	Relevance of glutamine metabolism to tumor cell growth. <i>Molecular and Cellular Biochemistry</i> , 1992, 113, 1-15.	3.1	177
5	Antiproliferative effect of dehydrididemnin B (DDB), a depsipeptide isolated from Mediterranean tunicates. <i>Cancer Letters</i> , 1996, 102, 31-37.	7.2	131
6	PeroxisomeDB 2.0: an integrative view of the global peroxisomal metabolome. <i>Nucleic Acids Research</i> , 2010, 38, D800-D805.	14.5	103
7	Mammalian histidine decarboxylase: from structure to function. <i>BioEssays</i> , 2005, 27, 57-63.	2.5	78
8	Histamine, polyamines, and cancer. <i>Biochemical Pharmacology</i> , 1999, 57, 1341-1344.	4.4	77
9	Antioxidant Enzymatic Activities in Human Blood Cells after an Allergic Reaction to Pollen or House Dust Mite. <i>Blood Cells, Molecules, and Diseases</i> , 1999, 25, 103-109.	1.4	59
10	Green tea epigallocatechin-3-gallate is an inhibitor of mammalian histidine decarboxylase. <i>Cellular and Molecular Life Sciences</i> , 2003, 60, 1760-1763.	5.4	55
11	Epigallocatechin gallate reduces human monocyte mobility and adhesion <i>in vitro</i> . <i>British Journal of Pharmacology</i> , 2009, 158, 1705-1712.	5.4	49
12	Polyamines Are Present in Mast Cell Secretory Granules and Are Important for Granule Homeostasis. <i>PLoS ONE</i> , 2010, 5, e15071.	2.5	49
13	Pharmacological potential of biogenic amine-polyamine interactions beyond neurotransmission. <i>British Journal of Pharmacology</i> , 2013, 170, 4-16.	5.4	49
14	Polyamines in mammalian pathophysiology. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 3987-4008.	5.4	47
15	Polyamine metabolism revisited. <i>European Journal of Gastroenterology and Hepatology</i> , 2001, 13, 1015-1019.	1.6	46
16	On the interpretation of Raman spectra of 1-aminooxy-spermine/DNA complexes. <i>Nucleic Acids Research</i> , 2004, 32, 579-589.	14.5	45
17	Mathematical Modeling of Polyamine Metabolism in Mammals*. <i>Journal of Biological Chemistry</i> , 2006, 281, 21799-21812.	3.4	44
18	Anti-angiogenic effects of homocysteine on cultured endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2002, 293, 497-500.	2.1	40

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19	In silico analysis of arginine catabolism as a source of nitric oxide or polyamines in endothelial cells. <i>Amino Acids</i> , 2008, 34, 223-229.	2.7	40
20	Raman Study of the Interaction between Polyamines and a GC Oligonucleotide. <i>Biochemical and Biophysical Research Communications</i> , 2001, 285, 437-446.	2.1	39
21	Mammalian l-amino acid decarboxylases producing 1,4-diamines: analogies among differences. <i>Trends in Biochemical Sciences</i> , 1994, 19, 318-319.	7.5	38
22	Structural features of mammalian histidine decarboxylase reveal the basis for specific inhibition. <i>British Journal of Pharmacology</i> , 2009, 157, 4-13.	5.4	34
23	Expression of ferredoxin-dependent glutamate synthase in dark-grown pine seedlings. <i>Plant Molecular Biology</i> , 1995, 27, 115-128.	3.9	33
24	(â€”)-Epigallocatechin-3-gallate interferes with mast cell adhesiveness, migration and its potential to recruit monocytes. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 2690-2701.	5.4	32
25	The Functional Interaction of 14-3-3 Proteins with the ERK1/2 Scaffold KSR1 Occurs in an Isoform-specific Manner. <i>Journal of Biological Chemistry</i> , 2008, 283, 17450-17462.	3.4	32
26	Local changes in the catalytic site of mammalian histidine decarboxylase can affect its global conformation and stability. <i>FEBS Journal</i> , 2003, 270, 4376-4387.	0.2	31
27	The C-terminus of rat L-histidine decarboxylase specifically inhibits enzymic activity and disrupts pyridoxal phosphate-dependent interactions with L-histidine substrate analogues. <i>Biochemical Journal</i> , 2004, 381, 769-778.	3.7	31
28	Targeting of histamine producing cells by EGCG: a green dart against inflammation?. <i>Journal of Physiology and Biochemistry</i> , 2010, 66, 265-270.	3.0	31
29	Effects of phorbol ester and dexamethasone treatment on histidine decarboxylase and ornithine decarboxylase in basophilic cells. <i>Biochemical Pharmacology</i> , 2001, 61, 1101-1106.	4.4	30
30	Bicyclic Derivatives of <sc>L</sc>â€”donojirimycin as Pharmacological Chaperones for Neuronopathic Forms of Gaucher Disease. <i>ChemBioChem</i> , 2013, 14, 943-949.	2.6	30
31	Raman spectroscopy study of the interaction between biogenic polyamines and an alternating AT oligodeoxyribonucleotide. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2003, 1628, 11-21.	2.4	29
32	Mapping of catalytically important residues in the rat l-histidine decarboxylase enzyme using bioinformatic and site-directed mutagenesis approaches. <i>Biochemical Journal</i> , 2004, 379, 253-261.	3.7	29
33	H3 Autoreceptors Modulate Histamine Synthesis through Calcium/Calmodulin- and cAMP-Dependent Protein Kinase Pathways. <i>Molecular Pharmacology</i> , 2005, 67, 195-203.	2.3	29
34	Effect of spermine conjugation on the interaction of acridine with alternating purineâ€”pyrimidine oligodeoxyribonucleotides studied by CD, fluorescence and absorption spectroscopies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 69, 1089-1096.	3.9	29
35	Targeting polyamines and biogenic amines by green tea epigallocatechin-3-gallate. <i>Amino Acids</i> , 2010, 38, 519-523.	2.7	29
36	A comparative study of the effects of genistein and 2-methoxyestradiol on the proteolytic balance and tumour cell proliferation. <i>British Journal of Cancer</i> , 1999, 80, 17-24.	6.4	28

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37	Chlorpheniramine inhibits the ornithine decarboxylase induction of Ehrlich carcinoma growing in vivo. <i>FEBS Letters</i> , 1992, 305, 260-264.	2.8	27
38	DNA-chlorpheniramine interaction studied by spectroscopic techniques. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1998, 1379, 129-133.	2.4	27
39	Histamine: an undercover agent in multiple rare diseases?. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 1947-1960.	3.6	27
40	Simultaneous fluoremetric determination of intracellular polyamines separated by reversed-phase high-performance liquid chromatography. <i>Agents and Actions</i> , 1992, 36, 17-21.	0.7	26
41	FT-Raman and QM/MM study of the interaction between histamine and DNA. <i>Chemical Physics</i> , 2006, 324, 579-590.	1.9	26
42	Polyamines: metabolism to systems biology and beyond. <i>Amino Acids</i> , 2007, 33, 283-289.	2.7	26
43	What is known on angiogenesis-related rare diseases? A systematic review of literature. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 2872-2893.	3.6	26
44	Study by optical spectroscopy and molecular dynamics of the interaction of acridine-spermine conjugate with DNA. <i>Biophysical Chemistry</i> , 2008, 133, 54-65.	2.8	24
45	Analysis of the Decarboxylation Step in Mammalian Histidine Decarboxylase. <i>Journal of Biological Chemistry</i> , 2008, 283, 12393-12401.	3.4	24
46	Molecular characterization of five patients with homocystinuria due to severe methylenetetrahydrofolate reductase deficiency. <i>Clinical Genetics</i> , 2010, 78, 441-448.	2.0	23
47	Histamine prevents polyamine accumulation in mouse C57.1 mast cell cultures. <i>FEBS Journal</i> , 2001, 268, 768-773.	0.2	22
48	Finding the "Dark Matter" in Human and Yeast Protein Network Prediction and Modelling. <i>PLoS Computational Biology</i> , 2010, 6, e1000945.	3.2	21
49	Chlorpheniramine inhibits the synthesis of ornithine decarboxylase and the proliferation of human breast cancer cell lines. <i>Breast Cancer Research and Treatment</i> , 1995, 35, 187-194.	2.5	20
50	Molecular Modeling and Site-Directed Mutagenesis Reveal Essential Residues for Catalysis in a Prokaryote-Type Aspartate Aminotransferase. <i>Plant Physiology</i> , 2009, 149, 1648-1660.	4.8	20
51	The polyamine and histamine metabolic interplay in cancer and chronic inflammation. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2009, 12, 59-65.	2.5	20
52	Histamine transport and metabolism are deranged in salivary glands in Sjogren's syndrome. <i>Rheumatology</i> , 2013, 52, 1599-1608.	1.9	20
53	In vitro study of proteolytic degradation of rat histidine decarboxylase. <i>FEBS Journal</i> , 2000, 267, 1527-1531.	0.2	19
54	Evolutionary expansion of the Ras switch regulatory module in eukaryotes. <i>Nucleic Acids Research</i> , 2011, 39, 5526-5537.	14.5	18

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55	Candidate Gene Study of TRAIL and TRAIL Receptors: Association with Response to Interferon Beta Therapy in Multiple Sclerosis Patients. <i>PLoS ONE</i> , 2013, 8, e62540.	2.5	18
56	The Pest Regions Containing C-Termini of Mammalian Ornithine Decarboxylase and Histidine Decarboxylase Play Different Roles in Protein Degradation. <i>Biochemical and Biophysical Research Communications</i> , 1999, 257, 269-272.	2.1	17
57	Regulation by 1,4-diamines of the ornithine decarboxylase activity induced by ornithine in perfused tumor cells. <i>Biochemical Pharmacology</i> , 1991, 42, 1045-1052.	4.4	16
58	Systems biology metabolic modeling assistant: an ontology-based tool for the integration of metabolic data in kinetic modeling. <i>Bioinformatics</i> , 2009, 25, 834-835.	4.1	16
59	Structural Perspective on the Direct Inhibition Mechanism of EGCG on Mammalian Histidine Decarboxylase and DOPA Decarboxylase. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 113-119.	5.4	16
60	Regulatory cross-talk of mouse liver polyamine and methionine metabolic pathways: a systemic approach to its physiopathological consequences. <i>Amino Acids</i> , 2012, 42, 577-595.	2.7	16
61	Rat Histidine Decarboxylase Is a Substrate for m-Calpain in Vitro. <i>Biochemical and Biophysical Research Communications</i> , 2000, 271, 777-781.	2.1	15
62	Agmatine Uptake by Cultured Hamster Kidney Cells. <i>Biochemical and Biophysical Research Communications</i> , 2001, 280, 307-311.	2.1	14
63	Raman study of the effects of polyamines on DNA:spermine and histamine. <i>Journal of Molecular Structure</i> , 1999, 480-481, 455-458.	3.6	13
64	Homocysteine inhibits the proliferation and invasive potential of HT-1080 human fibrosarcoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2003, 301, 540-544.	2.1	13
65	Intercalation and groove binding of an acridine-spermine conjugate on DNA sequences: an FT-Raman and UV-visible absorption study. <i>Journal of Molecular Structure</i> , 2005, 744-747, 699-704.	3.6	13
66	The usefulness of post-genomics tools for characterization of the amine cross-talk in mammalian cells. <i>Biochemical Society Transactions</i> , 2007, 35, 381-385.	3.4	13
67	Exploring polyamine regulation by nascent histamine in a human-transfected cell model. <i>Amino Acids</i> , 2010, 38, 561-573.	2.7	13
68	Substrate uptake and protein stability relationship in mammalian histidine decarboxylase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 154-161.	2.6	13
69	A combined model of hepatic polyamine and sulfur amino acid metabolism to analyze S-adenosyl methionine availability. <i>Amino Acids</i> , 2012, 42, 597-610.	2.7	13
70	An in vitro evaluation of the effects of homocysteine thiolactone on key steps of angiogenesis and tumor invasion. <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 649-653.	2.1	12
71	Homocysteine is a potent inhibitor of human tumor cell gelatinases. <i>Biochemical and Biophysical Research Communications</i> , 2003, 303, 572-575.	2.1	11
72	Development of an expression microarray for amine metabolism-related genes. <i>Amino Acids</i> , 2007, 33, 315-322.	2.7	11

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73	Exploring and challenging the network of angiogenesis. <i>Scientific Reports</i> , 2011, 1, 61.	3.3	10
74	A modeling and simulation approach to the study of metabolic control analysis. <i>Biochemistry and Molecular Biology Education</i> , 2002, 30, 169-171.	1.2	9
75	New structural insights to help in the search for selective inhibitors of mammalian pyridoxal 5â€™-phosphate-dependent histidine decarboxylase. <i>Inflammation Research</i> , 2006, 55, S55-S56.	4.0	7
76	Nascent histamine induces α -synuclein and caspase-3 on human cells. <i>Biochemical and Biophysical Research Communications</i> , 2014, 451, 580-586.	2.1	7
77	Vinca alkaloids enhance the half-life of tumour ornithine decarboxylase. <i>Cancer Letters</i> , 1994, 81, 209-213.	7.2	6
78	One century after Fischer: better tools for teaching the stereochemistry of carbohydrates. <i>Biochemical Education</i> , 1999, 27, 7-8.	0.1	6
79	Characterization of spermine uptake by Ehrlich tumour cells in culture. <i>Amino Acids</i> , 2001, 21, 271-279.	2.7	6
80	Aminoxy analog of histamine is an efficient inhibitor of mammalian l-histidine decarboxylase: combined in silico and experimental evidence. <i>Amino Acids</i> , 2014, 46, 621-631.	2.7	6
81	The induction of ornithine decarboxylase by ornithine takes place at post-transcriptional level in perfused Ehrlich carcinoma cells. <i>Cancer Letters</i> , 1992, 67, 187-192.	7.2	5
82	Characterization of polyamine-induced aggregates of oligodeoxyribonucleotides by Raman spectroscopy. <i>Journal of Molecular Structure</i> , 2001, 565-566, 141-146.	3.6	5
83	AMMO-Prot: amine system project 3D-model finder. <i>BMC Bioinformatics</i> , 2008, 9, S5.	2.6	5
84	An experiment on apoptosis induced by polyamine adducts produced in the presence of serum amine oxidase. <i>Biochemical Education</i> , 2000, 28, 110-112.	0.1	4
85	Interaction of DNA with an aminoxy analogue of spermidine â€” an FT-IR and FT-Raman approach. <i>Journal of Molecular Structure</i> , 2001, 565-566, 253-258.	3.6	4
86	Information integration of proteinâ€™protein interactions as essential tools for immunomics. <i>Cellular Immunology</i> , 2006, 244, 84-86.	3.0	4
87	Biocomputational Resources Useful For Drug Discovery Against Compartmentalized Targets. <i>Current Pharmaceutical Design</i> , 2014, 20, 293-300.	1.9	4
88	Study by electronic circular dichroism spectroscopy of the interaction between aminoxy analogues of biogenic polyamines and selected oligonucleotides. <i>Journal of Molecular Structure</i> , 2005, 744-747, 691-698.	3.6	3
89	Analysis of Mammalian Histidine Decarboxylase Dimerization Interface Reveals an Electrostatic Hotspot Important for Catalytic Site Topology and Function. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1935-1942.	5.3	3
90	Social pathway annotation: extensions of the systems biology metabolic modelling assistant. <i>Briefings in Bioinformatics</i> , 2011, 12, 576-587.	6.5	3

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91	Structure/function relationship studies on the T/S residues 173-177 of rat ODC. BBA - Proteins and Proteomics, 1998, 1386, 113-120.	2.1	2
92	Putrescine and chlorpheniramine inhibit Ehrlich ascites tumor cell plasma membrane ferricyanide reductase activity. Cancer Letters, 1998, 132, 165-168.	7.2	2
93	5. Synthesis, metabolism and release of histamine. Inflammation Research, 2007, 56, S51-S52.	4.0	1
94	Antagonism between histamine and polyamines in mast cells. Inflammation Research, 2008, 57, 9-10.	4.0	1
95	Enzymology in Histamine Biogenesis. , 2010, , 33-57.		0
96	The Amine System Project: Systems Biology in Practice. Studies in Computational Intelligence, 2008, , 277-292.	0.9	0