

Francisco Javier Marquez Gomez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8768700/publications.pdf>

Version: 2024-02-01

95
papers

4,806
citations

87723

38
h-index

98622

67
g-index

98
all docs

98
docs citations

98
times ranked

5917
citing authors

#	ARTICLE	IF	CITATIONS
1	Intracellular redox status and oxidative stress: implications for cell proliferation, apoptosis, and carcinogenesis. <i>Archives of Toxicology</i> , 2008, 82, 273-299.	1.9	387
2	Oxidative stress in apoptosis and cancer: an update. <i>Archives of Toxicology</i> , 2012, 86, 1649-1665.	1.9	290
3	Glutamine and its relationship with intracellular redox status, oxidative stress and cell proliferation/death. <i>International Journal of Biochemistry and Cell Biology</i> , 2002, 34, 439-458.	1.2	281
4	Roles of dioxins and heavy metals in cancer and neurological diseases using ROS-mediated mechanisms. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1328-1341.	1.3	227
5	Metabolic reprogramming induces resistance to anti-NOTCH1 therapies in T cell acute lymphoblastic leukemia. <i>Nature Medicine</i> , 2015, 21, 1182-1189.	15.2	180
6	Relevance of glutamine metabolism to tumor cell growth. <i>Molecular and Cellular Biochemistry</i> , 1992, 113, 1-15.	1.4	177
7	Glutaminase Isoenzymes as Key Regulators in Metabolic and Oxidative Stress Against Cancer. <i>Current Molecular Medicine</i> , 2013, 13, 514-534.	0.6	161
8	Identification of two human glutaminase loci and tissue-specific expression of the two related genes. <i>Mammalian Genome</i> , 2000, 11, 1107-1110.	1.0	146
9	Glutamine homeostasis and mitochondrial dynamics. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 2051-2061.	1.2	123
10	Inhibition of glutaminase expression by antisense mRNA decreases growth and tumourigenicity of tumour cells. <i>Biochemical Journal</i> , 2000, 348, 257-261.	1.7	119
11	Antisense glutaminase inhibition decreases glutathione antioxidant capacity and increases apoptosis in Ehrlich ascitic tumour cells. <i>FEBS Journal</i> , 2004, 271, 4298-4306.	0.2	118
12	Dysregulation of glutaminase and glutamine synthetase in cancer. <i>Cancer Letters</i> , 2019, 467, 29-39.	3.2	107
13	Co-expression of glutaminase K and L isoenzymes in human tumour cells. <i>Biochemical Journal</i> , 2005, 386, 535-542.	1.7	104
14	Therapeutic targeting of glutaminolysis as an essential strategy to combat cancer. <i>Seminars in Cell and Developmental Biology</i> , 2020, 98, 34-43.	2.3	84
15	Ehrlich ascites tumour unbalances splenic cell populations and reduces responsiveness of T cells to <i>Staphylococcus aureus</i> enterotoxin B stimulation. <i>Immunology Letters</i> , 2000, 74, 111-115.	1.1	80
16	Molecular cloning, sequencing and expression studies of the human breast cancer cell glutaminase. <i>Biochemical Journal</i> , 2000, 345, 365-375.	1.7	79
17	Nitrogen metabolism in tumor bearing mice. <i>Archives of Biochemistry and Biophysics</i> , 1989, 268, 667-675.	1.4	78
18	Nuclear Localization of L-type Glutaminase in Mammalian Brain. <i>Journal of Biological Chemistry</i> , 2002, 277, 38939-38944.	1.6	77

#	ARTICLE	IF	CITATIONS
19	Both GLS silencing and GLS2 overexpression synergize with oxidative stress against proliferation of glioma cells. <i>Journal of Molecular Medicine</i> , 2014, 92, 277-290.	1.7	74
20	Glutaminase: A multifaceted protein not only involved in generating glutamate. <i>Neurochemistry International</i> , 2006, 48, 465-471.	1.9	69
21	Glutamine Addiction In Gliomas. <i>Neurochemical Research</i> , 2017, 42, 1735-1746.	1.6	64
22	Glutaminase isoenzymes in the metabolic therapy of cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2018, 1870, 158-164.	3.3	63
23	Pathways from glutamine to apoptosis. <i>Frontiers in Bioscience - Landmark</i> , 2006, 11, 3164.	3.0	60
24	Transfection with liver-type glutaminase cDNA alters gene expression and reduces survival, migration and proliferation of T98G glioma cells. <i>Glia</i> , 2009, 57, 1014-1023.	2.5	60
25	The C-terminus of human glutaminase L mediates association with PDZ domain-containing proteins 1. <i>FEBS Letters</i> , 2001, 488, 116-122.	1.3	56
26	A novel glutaminase isoform in mammalian tissues. <i>Neurochemistry International</i> , 2009, 55, 76-84.	1.9	56
27	Natural Antioxidants: Therapeutic Prospects for Cancer and Neurological Diseases. <i>Mini-Reviews in Medicinal Chemistry</i> , 2009, 9, 1202-1214.	1.1	52
28	Phosphate-activated glutaminase expression during tumor development. <i>FEBS Letters</i> , 1994, 341, 39-42.	1.3	51
29	Expression of Gls and Gls2 glutaminase isoforms in astrocytes. <i>Glia</i> , 2015, 63, 365-382.	2.5	45
30	Granule Localization of Glutaminase in Human Neutrophils and the Consequence of Glutamine Utilization for Neutrophil Activity. <i>Journal of Biological Chemistry</i> , 2004, 279, 13305-13310.	1.6	44
31	Mammalian Glutaminase Gls2 Gene Encodes Two Functional Alternative Transcripts by a Surrogate Promoter Usage Mechanism. <i>PLoS ONE</i> , 2012, 7, e38380.	1.1	44
32	Silencing of GLS and overexpression of GLS2 genes cooperate in decreasing the proliferation and viability of glioblastoma cells. <i>Tumor Biology</i> , 2014, 35, 1855-1862.	0.8	44
33	Early tumor effect on splenic Th lymphocytes in mice. <i>FEBS Letters</i> , 1997, 414, 1-6.	1.3	43
34	Antisense glutaminase inhibition modifies the O ⁶ -GlcNAc pattern and flux through the hexosamine pathway in breast cancer cells. <i>Journal of Cellular Biochemistry</i> , 2008, 103, 800-811.	1.2	43
35	Inhibition of glutaminase expression by antisense mRNA decreases growth and tumourigenicity of tumour cells. <i>Biochemical Journal</i> , 2000, 348, 257.	1.7	42
36	Attenuation of cocaine-induced conditioned locomotion is associated with altered expression of hippocampal glutamate receptors in mice lacking LPA1 receptors. <i>Psychopharmacology</i> , 2012, 220, 27-42.	1.5	42

#	ARTICLE	IF	CITATIONS
37	Expression of the scaffolding PDZ protein glutaminase-interacting protein in mammalian brain. <i>Journal of Neuroscience Research</i> , 2008, 86, 281-292.	1.3	40
38	Expression of functional human glutaminase in baculovirus system: Affinity purification, kinetic and molecular characterization. <i>International Journal of Biochemistry and Cell Biology</i> , 2007, 39, 765-773.	1.2	39
39	Glutaminases regulate glutathione and oxidative stress in cancer. <i>Archives of Toxicology</i> , 2020, 94, 2603-2623.	1.9	38
40	Sulphur-containing non enzymatic antioxidants therapeutic tools against cancer. <i>Frontiers in Bioscience - Scholar</i> , 2012, S4, 722-748.	0.8	37
41	Molecular cloning, sequencing and expression studies of the human breast cancer cell glutaminase. <i>Biochemical Journal</i> , 2000, 345, 365.	1.7	36
42	Glutamate and Brain Glutaminases in Drug Addiction. <i>Neurochemical Research</i> , 2017, 42, 846-857.	1.6	35
43	New insights into brain glutaminases: Beyond their role on glutamatergic transmission. <i>Neurochemistry International</i> , 2009, 55, 64-70.	1.9	33
44	Submitochondrial localization and membrane topography of Ehrlich ascitic tumour cell glutaminase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1323, 173-184.	1.4	31
45	Pharmacological Blockade of Cannabinoid CB1 Receptors in Diet-Induced Obesity Regulates Mitochondrial Dihydropyrimidinase Dehydrogenase in Muscle. <i>PLoS ONE</i> , 2015, 10, e0145244.	1.1	31
46	The Epithelial to Mesenchymal Transition Promotes Glutamine Independence by Suppressing GLS2 Expression. <i>Cancers</i> , 2019, 11, 1610.	1.7	31
47	Interchange of amino acids between tumor and host. <i>Biochemical Medicine and Metabolic Biology</i> , 1992, 48, 1-7.	0.7	29
48	Genomic organization and transcriptional analysis of the human l-glutaminase gene. <i>Biochemical Journal</i> , 2003, 370, 771-784.	1.7	29
49	Glutamine, Glucose and other Fuels for Cancer. <i>Current Pharmaceutical Design</i> , 2014, 20, 2557-2579.	0.9	29
50	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
51	Ehrlich ascites tumor cells expressing anti-sense glutaminase mRNA lose their capacity to evade the mouse immune system. <i>International Journal of Cancer</i> , 2001, 91, 379-384.	2.3	26
52	Nuclear Translocation of Glutaminase GLS2 in Human Cancer Cells Associates with Proliferation Arrest and Differentiation. <i>Scientific Reports</i> , 2020, 10, 2259.	1.6	26
53	Metabolic Reprogramming of Cancer by Chemicals that Target Glutaminase Isoenzymes. <i>Current Medicinal Chemistry</i> , 2020, 27, 5317-5339.	1.2	26
54	Covalent modification of a critical sulfhydryl group in the acetylcholine receptor: cysteine-222 of the .alpha.-subunit. <i>Biochemistry</i> , 1989, 28, 7433-7439.	1.2	23

#	ARTICLE	IF	CITATIONS
55	Glutaminases. <i>Advances in Neurobiology</i> , 2016, 13, 133-171.	1.3	23
56	Native polyacrylamide gel electrophoresis of membrane proteins: Glutaminase detection after in situ specific activity staining. <i>Electrophoresis</i> , 1993, 14, 88-93.	1.3	18
57	Cocaine modulates both glutaminase gene expression and glutaminase activity in the brain of cocaine-sensitized mice. <i>Psychopharmacology</i> , 2012, 219, 933-944.	1.5	18
58	Altered ornithine metabolism in tumor-bearing mice. <i>Life Sciences</i> , 1989, 45, 1877-1884.	2.0	17
59	Interaction of nicotinic acetylcholine receptor with two monoclonal antibodies recognizing different epitopes. <i>Biochemistry</i> , 1989, 28, 4222-4229.	1.2	17
60	Tumor Glutaminase Purification. <i>Protein Expression and Purification</i> , 1995, 6, 343-351.	0.6	17
61	Polyamine contents of human breast cancer cells treated with the cytotoxic agents chlorpheniramine and dehydridemnin B. <i>Cancer Letters</i> , 1997, 113, 141-144.	3.2	17
62	S-nitrosothiols regulate cell-surface pH buffering by airway epithelial cells during the human immune response to rhinovirus. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 290, L827-L832.	1.3	17
63	Probing the Structure and Function of Human Glutaminase-Interacting Protein: A Possible Target for Drug Design. <i>Biochemistry</i> , 2008, 47, 9208-9219.	1.2	17
64	Glutaminases in brain: Multiple isoforms for many purposes. <i>Neurochemistry International</i> , 2015, 88, 1-5.	1.9	17
65	Transfection with GLS2 Glutaminase (GAB) Sensitizes Human Glioblastoma Cell Lines to Oxidative Stress by a Common Mechanism Involving Suppression of the PI3K/AKT Pathway. <i>Cancers</i> , 2019, 11, 115.	1.7	17
66	Antioxidant responses related to temozolomide resistance in glioblastoma. <i>Neurochemistry International</i> , 2021, 149, 105136.	1.9	17
67	Mouse liver free amino acids during the development of Ehrlich ascites tumour. <i>Cancer Letters</i> , 1991, 58, 221-224.	3.2	16
68	Lysophosphatidic Acid and Glutamatergic Transmission. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 138.	1.4	16
69	Ehrlich cell plasma membrane redox system is modulated through signal transduction pathways involving cGMP and Ca ²⁺ as second messengers. <i>Journal of Bioenergetics and Biomembranes</i> , 1995, 27, 605-611.	1.0	14
70	Purification and characterization of a plasma membrane ferricyanide-utilizing NADH dehydrogenase from Ehrlich tumour cells. <i>Biochemical Journal</i> , 1996, 314, 587-593.	1.7	14
71	Mammalian glutaminase isozymes in brain. <i>Metabolic Brain Disease</i> , 2013, 28, 133-137.	1.4	14
72	Glutaminase and MMP-9 Downregulation in Cortex and Hippocampus of LPA1 Receptor Null Mice Correlate with Altered Dendritic Spine Plasticity. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 278.	1.4	14

#	ARTICLE	IF	CITATIONS
73	Overexpression, Purification, and Characterization of Glutaminase-Interacting Protein, a PDZ-Domain Protein from Human Brain. <i>Protein Expression and Purification</i> , 2001, 23, 411-418.	0.6	13
74	Expression of recombinant human l-glutaminase in Escherichia coli: polyclonal antibodies production and immunological analysis of mouse tissues. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1648, 17-23.	1.1	13
75	Involvement of essential histidine residue(s) in the activity of Ehrlich cell plasma membrane NADH-ferricyanide oxidoreductase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994, 1190, 20-24.	1.4	12
76	Inhibition of glutaminase expression increases Sp1 phosphorylation and Sp1/Sp3 transcriptional activity in Ehrlich tumor cells. <i>Cancer Letters</i> , 2005, 218, 91-98.	3.2	12
77	Involvement of essential cysteine and histidine residues in the activity of isolated glutaminase from tumour cells. <i>BBA - Proteins and Proteomics</i> , 1998, 1429, 275-283.	2.1	11
78	Identification of genes downregulated in tumor cells expressing antisense glutaminase mRNA by differential display. <i>Cancer Biology and Therapy</i> , 2006, 5, 54-58.	1.5	11
79	Brain glutaminases. <i>Biomolecular Concepts</i> , 2010, 1, 3-15.	1.0	11
80	Glutaminase isoforms expression switches microRNA levels and oxidative status in glioblastoma cells. <i>Journal of Biomedical Science</i> , 2021, 28, 14.	2.6	11
81	Sodium-dependent l-serine transport in plasma membrane vesicles isolated from Ehrlich cells by two-phase compartmentation. <i>Journal of Membrane Biology</i> , 1991, 123, 247-254.	1.0	9
82	Effects of protein kinase C and phosphoprotein phosphatase modulators on Ehrlich cell plasma membrane redox system activity. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1996, 1313, 157-160.	1.9	9
83	Early differential expression of two glutaminase mRNAs in mouse spleen after tumor implantation. <i>Cancer Letters</i> , 1998, 133, 95-99.	3.2	8
84	Two Phases Of Ferricyanide Reductase Activity In Ehrlich Cell Plasma Membranes. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1992, 47, 929-931.	0.6	6
85	Characterization of plasma membrane redox activity from ehrlich cells. <i>Cell Biochemistry and Function</i> , 1994, 12, 149-152.	1.4	6
86	Ehrlich ascites tumor cells expressing anti-sense glutaminase mRNA lose their capacity to evade the mouse immune system. <i>International Journal of Cancer</i> , 2001, 91, 379-384.	2.3	6
87	An electrophoretic approach to screen for glutamine deamidation. <i>Analytical Biochemistry</i> , 2012, 428, 1-3.	1.1	6
88	Self-condensation of β^2 -(isoxazol-5-yl) enamines under treatment with acetyl chloride and acids. Synthesis of novel 1,3-diisoxazolyl-1,3-dieneamines and 1,3,5-triisoxazolyl benzenes. <i>Tetrahedron</i> , 2014, 70, 3915-3923.	1.0	5
89	Canceromics Studies Unravel Tumor's Glutamine Addiction After Metabolic Reprogramming. , 2015, , 257-286.		5
90	Sensitisation of Ehrlich ascitic tumour cells to methotrexate by inhibiting glutaminase. <i>Anticancer Research</i> , 2005, 25, 3315-20.	0.5	5

#	ARTICLE	IF	CITATIONS
91	Upregulation of glyceraldehyde-3-phosphate dehydrogenase mRNA in the spleen of tumor-bearing mice. <i>Biochimie</i> , 1999, 81, 1109-1113.	1.3	4
92	A Distinct Metabolite Profile Correlates with Neurodegenerative Conditions and the Severity of Congenital Hydrocephalus. <i>Journal of Neuropathology and Experimental Neurology</i> , 2018, 77, 1122-1136.	0.9	4
93	Tumor Metabolome: Therapeutic Opportunities Targeting Cancer Metabolic Reprogramming. <i>Cancers</i> , 2021, 13, 314.	1.7	2
94	Identification of a Zn ²⁺ -sensitive component of Ehrlich cell plasma membrane redox system by CHAPS-agarose-polyacrylamide electrophoresis and in situ staining of activity. <i>IUBMB Life</i> , 1997, 41, 75-81.	1.5	1
95	Corrigendum to: The C-terminus of human glutaminase L mediates association with PDZ domain-containing proteins (FEBS 24464). <i>FEBS Letters</i> , 2002, 531, 570-570.	1.3	1