

Saúl Gámez-Manzo

List of Publications by Year in descending order

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68
papers

1,096
citations

471509

17
h-index

501196

28
g-index

68
all docs

68
docs citations

68
times ranked

1337
citing authors

#	ARTICLE	IF	CITATIONS
1	Glucose-6-Phosphate Dehydrogenase: Update and Analysis of New Mutations around the World. International Journal of Molecular Sciences, 2016, 17, 2069.	4.1	155
2	Cognitive Impairment Induced by Lead Exposure during Lifespan: Mechanisms of Lead Neurotoxicity. Toxics, 2021, 9, 23.	3.7	75
3	The Stability of G6PD Is Affected by Mutations with Different Clinical Phenotypes. International Journal of Molecular Sciences, 2014, 15, 21179-21201.	4.1	57
4	Determining the molecular mechanism of inactivation by chemical modification of triosephosphate isomerase from the human parasite <i>Giardia lamblia</i> : A study for antiparasitic drug design. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2711-2724.	2.6	41
5	Molecular and Catalytic Properties of the Aldehyde Dehydrogenase of <i>Gluconacetobacter diazotrophicus</i> , a Quinoheme Protein Containing Pyrroloquinoline Quinone, Cytochrome b, and Cytochrome c. Journal of Bacteriology, 2010, 192, 5718-5724.	2.2	35
6	Giardial Triosephosphate Isomerase as Possible Target of the Cytotoxic Effect of Omeprazole in <i>Giardia lamblia</i> . Antimicrobial Agents and Chemotherapy, 2014, 58, 7072-7082.	3.2	34
7	The PQQ-alcohol dehydrogenase of <i>Gluconacetobacter diazotrophicus</i> . International Journal of Food Microbiology, 2008, 125, 71-78.	4.7	29
8	Proton pump inhibitors drastically modify triosephosphate isomerase from <i>Giardia lamblia</i> at functional and structural levels, providing molecular leads in the design of new anti-giardiasis drugs. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 97-107.	2.4	28
9	Mutations of Glucose-6-Phosphate Dehydrogenase Durham, Santa-Maria and A+ Variants Are Associated with Loss Functional and Structural Stability of the Protein. International Journal of Molecular Sciences, 2015, 16, 28657-28668.	4.1	25
10	Cloning, Expression, Purification and Characterization of His-Tagged Human Glucose-6-Phosphate Dehydrogenase: A Simplified Method for Protein Yield. Protein Journal, 2013, 32, 585-592.	1.6	24
11	Functional and Biochemical Characterization of Three Recombinant Human Glucose-6-Phosphate Dehydrogenase Mutants: Zacatecas, Vanua-Lava and Viangchan. International Journal of Molecular Sciences, 2016, 17, 787.	4.1	22
12	Validation of housekeeping genes as an internal control for gene expression studies in <i>Giardia lamblia</i> using quantitative real-time PCR. Gene, 2016, 581, 21-30.	2.2	22
13	Evaluation of Immunomodulatory Activities of the Heat-Killed Probiotic Strain <i>Lactobacillus casei</i> IMAU60214 on Macrophages In Vitro. Microorganisms, 2020, 8, 79.	3.6	22
14	Use of Antioxidants for the Neuro-Therapeutic Management of COVID-19. Antioxidants, 2021, 10, 971.	5.1	21
15	Structural and Functional Perturbation of <i>Giardia lamblia</i> Triosephosphate Isomerase by Modification of a Non-Catalytic, Non-Conserved Region. PLoS ONE, 2013, 8, e69031.	2.5	20
16	Effects of High Dietary Carbohydrate and Lipid Intake on the Lifespan of <i>C. elegans</i> . Cells, 2021, 10, 2359.	4.1	20
17	Functional and Biochemical Analysis of Glucose-6-Phosphate Dehydrogenase (G6PD) Variants: Elucidating the Molecular Basis of G6PD Deficiency. Catalysts, 2017, 7, 135.	3.5	19
18	Levetiracetam Mechanisms of Action: From Molecules to Systems. Pharmaceuticals, 2022, 15, 475.	3.8	19

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19	Structural Effects of Protein Aging: Terminal Marking by Deamidation in Human Triosephosphate Isomerase. <i>PLoS ONE</i> , 2015, 10, e0123379.	2.5	18
20	Partial bioenergetic characterization of <i>Gluconacetobacter xylinum</i> cells released from cellulose pellicles by a novel methodology. <i>Journal of Applied Microbiology</i> , 2005, 99, 1130-1140.	3.1	16
21	Biochemical Analysis of Two Single Mutants that Give Rise to a Polymorphic G6PD A-Double Mutant. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2244.	4.1	16
22	A high glucose diet induces autophagy in a HLH-30/TFEB-dependent manner and impairs the normal lifespan of <i>C. elegans</i> . <i>Aging</i> , 2018, 10, 2657-2667.	3.1	16
23	Kynurenine Pathway as a New Target of Cognitive Impairment Induced by Lead Toxicity During the Lactation. <i>Scientific Reports</i> , 2020, 10, 3184.	3.3	16
24	The Oxidative Fermentation of Ethanol in <i>Gluconacetobacter diazotrophicus</i> Is a Two-Step Pathway Catalyzed by a Single Enzyme: Alcohol-Aldehyde Dehydrogenase (ADHa). <i>International Journal of Molecular Sciences</i> , 2015, 16, 1293-1311.	4.1	15
25	Stem-Loop RT-qPCR as an Efficient Tool for the Detection and Quantification of Small RNAs in <i>Giardia lamblia</i> . <i>Genes</i> , 2016, 7, 131.	2.4	15
26	Hemolytic, anticancer and anti-giardial activity of <i>Palythoa caribaeorum</i> venom. <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , 2018, 24, 12.	1.4	15
27	Fyn specifically Regulates the activity of red cell glucose-6-phosphate-dehydrogenase. <i>Redox Biology</i> , 2020, 36, 101639.	9.0	14
28	Genetic variations associated with pharmaco-resistant epilepsy (Review). <i>Molecular Medicine Reports</i> , 2020, 21, 1685-1701.	2.4	14
29	Hypoxia as a modulator of cytochromes <i><sc>P450</sc></i> : Overexpression of the cytochromes <i><sc>CYP2S1</sc></i> and <i><sc>CYP24A1</sc></i> in human liver cancer cells in hypoxia. <i>Cell Biochemistry and Function</i> , 2021, 39, 478-487.	2.9	14
30	Hypoxia as a Modulator of Inflammation and Immune Response in Cancer. <i>Cancers</i> , 2022, 14, 2291.	3.7	14
31	The E104D mutation increases the susceptibility of human triosephosphate isomerase to proteolysis. Asymmetric cleavage of the two monomers of the homodimeric enzyme. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 2702-2711.	2.3	13
32	The MXL-3/SBP-1 Axis Is Responsible for Glucose-Dependent Fat Accumulation in <i>C. elegans</i> . <i>Genes</i> , 2017, 8, 307.	2.4	13
33	Cloning and biochemical characterization of three glucose-6-phosphate dehydrogenase mutants presents in the Mexican population. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 926-936.	7.5	13
34	Impact of Heat-Killed <i>Lactobacillus casei</i> Strain IMAU60214 on the Immune Function of Macrophages in Malnourished Children. <i>Nutrients</i> , 2020, 12, 2303.	4.1	13
35	A method for the extraction of high quality fungal RNA suitable for RNA-seq. <i>Journal of Microbiological Methods</i> , 2020, 170, 105855.	1.6	13
36	On the Antioxidant Properties of L-Kynurenine: An Efficient ROS Scavenger and Enhancer of Rat Brain Antioxidant Defense. <i>Antioxidants</i> , 2022, 11, 31.	5.1	13

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37	Effects of Single and Double Mutants in Human Glucose-6-Phosphate Dehydrogenase Variants Present in the Mexican Population: Biochemical and Structural Analysis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2732.	4.1	12
38	The active (ADHa) and inactive (ADHi) forms of the PQQ-alcohol dehydrogenase from <i>Gluconacetobacter diazotrophicus</i> differ in their respective oligomeric structures and redox state of their corresponding prosthetic groups. <i>FEMS Microbiology Letters</i> , 2012, 328, 106-113.	1.8	11
39	Biochemical Characterization and Structural Modeling of Fused Glucose-6-Phosphate Dehydrogenase-Phosphogluconolactonase from <i>Giardia lamblia</i> . <i>International Journal of Molecular Sciences</i> , 2018, 19, 2518.	4.1	11
40	RNAi-Mediated Specific Gene Silencing as a Tool for the Discovery of New Drug Targets in <i>Giardia lamblia</i> ; Evaluation Using the NADH Oxidase Gene. <i>Genes</i> , 2017, 8, 303.	2.4	10
41	The quinohaemoprotein alcohol dehydrogenase from <i>Gluconacetobacter xylinus</i> : molecular and catalytic properties. <i>Archives of Microbiology</i> , 2010, 192, 703-713.	2.2	9
42	Enhanced Antigiardial Effect of Omeprazole Analog Benzimidazole Compounds. <i>Molecules</i> , 2020, 25, 3979.	3.8	9
43	Catecholamine levels and gene expression of their receptors in tissues of adults with osteosarcoma. <i>Archives of Physiology and Biochemistry</i> , 2019, 127, 1-7.	2.1	7
44	Cloning, purification, and characterization of the 6-phosphogluconate dehydrogenase (6 PGDH) from <i>Giardia lamblia</i> . <i>Molecular and Biochemical Parasitology</i> , 2021, 244, 111383.	1.1	7
45	Kynurenine Monooxygenase Expression and Activity in Human Astrocytomas. <i>Cells</i> , 2021, 10, 2028.	4.1	7
46	New Immunotherapeutic Approaches for Glioblastoma. <i>Journal of Immunology Research</i> , 2021, 2021, 1-19.	2.2	7
47	Identification of the NADP ⁺ Structural Binding Site and Coenzyme Effect on the Fused G6PD::6PGL Protein from <i>Giardia lamblia</i> . <i>Biomolecules</i> , 2020, 10, 46.	4.0	6
48	Characterizing the Fused TvG6PD::6PGL Protein from the Protozoan <i>Trichomonas vaginalis</i> , and Effects of the NADP ⁺ Molecule on Enzyme Stability. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4831.	4.1	6
49	Novel inhibitors of human glucose-6-phosphate dehydrogenase (HsG6PD) affect the activity and stability of the protein. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129828.	2.4	6
50	Gene Cloning, Recombinant Expression, Characterization, and Molecular Modeling of the Glycolytic Enzyme Triosephosphate Isomerase from <i>Fusarium oxysporum</i> . <i>Microorganisms</i> , 2020, 8, 40.	3.6	5
51	Glucose-6-Phosphate Dehydrogenase::6-Phosphogluconolactonase from the Parasite <i>Giardia lamblia</i> . A Molecular and Biochemical Perspective of a Fused Enzyme. <i>Microorganisms</i> , 2021, 9, 1678.	3.6	5
52	Identification and In Silico Characterization of Novel <i>Helicobacter pylori</i> Glucose-6-Phosphate Dehydrogenase Inhibitors. <i>Molecules</i> , 2021, 26, 4955.	3.8	5
53	Kinetic and Molecular Docking Studies to Determine the Effect of Inhibitors on the Activity and Structure of Fused G6PD::6PGL Protein from <i>Trichomonas vaginalis</i> . <i>Molecules</i> , 2022, 27, 1174.	3.8	5
54	Purification, concentration and recovery of small fragments of DNA from <i>Giardia lamblia</i> and their use for other molecular techniques. <i>MethodsX</i> , 2017, 4, 289-296.	1.6	4

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55	Molecular Cloning and Exploration of the Biochemical and Functional Analysis of Recombinant Glucose-6-Phosphate Dehydrogenase from <i>Gluconoacetobacter diazotrophicus</i> PAL5. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5279.	4.1	4
56	Chemical structure of three basic Asp-49 phospholipases A2 isolated from <i>Crotalus molossus nigrescens</i> venom with cytotoxic activity against cancer cells. <i>Toxicon</i> , 2022, 210, 25-31.	1.6	4
57	Vitamin D and its Possible Relationship to Neuroprotection in COVID-19: Evidence in the Literature. <i>Current Topics in Medicinal Chemistry</i> , 2022, 22, 1346-1368.	2.1	4
58	Purification and Characterization of the Membrane-Bound Quinoprotein Glucose Dehydrogenase of <i>Gluconacetobacter diazotrophicus</i> PAL 5. <i>Protein Journal</i> , 2015, 34, 48-59.	1.6	3
59	Effect of Nicotine on CYP2B1 Expression in a Glioma Animal Model and Analysis of CYP2B6 Expression in Pediatric Gliomas. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1790.	4.1	3
60	Functional characterization and subcellular distribution of two recombinant cytosolic HSP70 isoforms from <i>Entamoeba histolytica</i> under normal and stress conditions. <i>Parasitology Research</i> , 2020, 119, 1337-1351.	1.6	3
61	The inactive and active forms of the pyrroloquinoline quinone-alcohol dehydrogenase of <i>Gluconacetobacter diazotrophicus</i> : a comparative study. <i>Acetic Acid Bacteria</i> , 2013, 2, 2.	1.0	3
62	COVID-19 in G6PD-deficient patients, oxidative stress, and neuropathology. <i>Current Topics in Medicinal Chemistry</i> , 2022, 22, .	2.1	3
63	Analysis of <i>Cyp2b1</i> gene expression in the rat liver and brain by multiplex PCR. <i>Molecular and Cellular Toxicology</i> , 2015, 11, 407-414.	1.7	2
64	A Novel Phospholipase A2 Isolated from <i>Palythoa caribaeorum</i> Possesses Neurotoxic Activity. <i>Toxins</i> , 2019, 11, 89.	3.4	2
65	Biochemical and Kinetic Characterization of the Glucose-6-Phosphate Dehydrogenase from <i>Helicobacter pylori</i> Strain 29CaP. <i>Microorganisms</i> , 2022, 10, 1359.	3.6	2
66	Validation and Selection of New Reference Genes for RT-qPCR Analysis in Pediatric Glioma of Different Grades. <i>Genes</i> , 2021, 12, 1335.	2.4	1
67	The Role of Mass Spectrometry in the Discovery of Antibiotics and Bacterial Resistance Mechanisms: Proteomics and Metabolomics Approaches. <i>Current Medicinal Chemistry</i> , 2023, 30, 30-58.	2.4	1
68	Fyn Specifically Regulates the Activity of Red Cell Glucose-6-Phosphate-Dehydrogenase. <i>Blood</i> , 2019, 134, 3527-3527.	1.4	0