

# Mario Lo Bello

## List of Publications by Year in descending order

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60  
papers

3,508  
citations

109321

35  
h-index

133252

59  
g-index

60  
all docs

60  
docs citations

60  
times ranked

3217  
citing authors

#	ARTICLE	IF	CITATIONS
1	A structure-based mechanism of cisplatin resistance mediated by glutathione transferase P1-1. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13943-13951.	7.1	76
2	Glutathione transferase P1-1 as an arsenic drug-sequestering enzyme. Protein Science, 2017, 26, 317-326.	7.6	20
3	Organometallic Glutathione S-Transferase Inhibitors. Organometallics, 2017, 36, 3313-3321.	2.3	29
4	Nitric Oxide Interacting with Glutathione Transferases. , 2017, , 191-195.		0
5	Evolution of Negative Cooperativity in Glutathione Transferase Enabled Preservation of Enzyme Function. Journal of Biological Chemistry, 2016, 291, 26739-26749.	3.4	24
6	Glutathione transferases and neurodegenerative diseases. Neurochemistry International, 2015, 82, 10-18.	3.8	104
7	The Impact of Nitric Oxide Toxicity on the Evolution of the Glutathione Transferase Superfamily. Journal of Biological Chemistry, 2013, 288, 24936-24947.	3.4	31
8	A new target for gold(I) compounds: Glutathione-S-transferase inhibition by auranofin. Journal of Inorganic Biochemistry, 2013, 119, 38-42.	3.5	39
9	Identifying and Characterizing Binding Sites on the Irreversible Inhibition of Human Glutathione S-transferase P1-1 by S-thiocarbamoylation. ChemBioChem, 2012, 13, 1594-1604.	2.6	9
10	Treatment of doxorubicin-resistant MCF7/Dx cells with nitric oxide causes histone glutathionylation and reversal of drug resistance. Biochemical Journal, 2011, 440, 175-183.	3.7	77
11	Diuretic drug binding to human glutathione transferase P1-1: potential role of Cys101 revealed in the double mutant C47S/Y108V. Journal of Molecular Recognition, 2011, 24, 220-234.	2.1	13
12	Studies of Glutathione Transferase P1-1 Bound to a Platinum(IV)-Based Anticancer Compound Reveal the Molecular Basis of Its Activation. Chemistry - A European Journal, 2011, 17, 7806-7816.	3.3	73
13	Rational Design of an Organometallic Glutathione Transferase Inhibitor. Angewandte Chemie - International Edition, 2009, 48, 3854-3857.	13.8	169
14	Influence of the H-site residue 108 on human glutathione transferase P1-1 ligand binding: Structure-thermodynamic relationships and thermal stability. Protein Science, 2009, 18, 2454-2470.	7.6	15
15	Monomer-Dimer Equilibrium in Glutathione Transferases: A Critical Re-Examination. Biochemistry, 2009, 48, 10473-10482.	2.5	88
16	The Anti-cancer Drug Chlorambucil as a Substrate for the Human Polymorphic Enzyme Glutathione Transferase P1-1: Kinetic Properties and Crystallographic Characterisation of Allelic Variants. Journal of Molecular Biology, 2008, 380, 131-144.	4.2	49
17	Electrostatic Association of Glutathione Transferase to the Nuclear Membrane. Journal of Biological Chemistry, 2007, 282, 6372-6379.	3.4	38
18	Organometallic Ruthenium Inhibitors of Glutathione S-transferase P1-1 as Anticancer Drugs. ChemMedChem, 2007, 2, 1799-1806.	3.2	124

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19	Calorimetric and structural studies of the nitric oxide carrier S-nitrosoglutathione bound to human glutathione transferase P1-1. <i>Protein Science</i> , 2006, 15, 1093-1105.	7.6	24
20	Nitrosylation of Human Glutathione Transferase P1-1 with Dinitrosyl Diglutathionyl Iron Complex in Vitro and in Vivo. <i>Journal of Biological Chemistry</i> , 2005, 280, 42172-42180.	3.4	109
21	Cooperativity and Pseudo-cooperativity in the Glutathione S-Transferase from <i>Plasmodium falciparum</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 26121-26128.	3.4	26
22	Inhibition of human glutathione S-transferase P1-1 by the flavonoid quercetin. <i>Chemico-Biological Interactions</i> , 2003, 145, 139-148.	4.0	92
23	Engineering a New C-terminal Tail in the H-site of Human Glutathione Transferase P1-1: Structural and Functional Consequences. <i>Journal of Molecular Biology</i> , 2003, 325, 111-122.	4.2	19
24	Exploration of in vitro pro-drug activation and futile cycling by glutathione S-transferases: thiol ester hydrolysis and inhibitor maturation. <i>Archives of Biochemistry and Biophysics</i> , 2003, 414, 303-311.	3.0	24
25	Thermodynamic Description of the Effect of the Mutation Y49F on Human Glutathione Transferase P1-1 in Binding with Glutathione and the Inhibitor S-Hexylglutathione. <i>Journal of Biological Chemistry</i> , 2003, 278, 46938-46948.	3.4	20
26	The Specific Interaction of Dinitrosyl-Diglutathionyl-Iron Complex, a Natural NO Carrier, with the Glutathione Transferase Superfamily. <i>Journal of Biological Chemistry</i> , 2003, 278, 42283-42293.	3.4	65
27	Glutathione Transferase Superfamily Behaves Like Storage Proteins for Dinitrosyl-Diglutathionyl-Iron Complex in Heterogeneous Systems. <i>Journal of Biological Chemistry</i> , 2003, 278, 42294-42299.	3.4	65
28	Glutathione transferase P1-1: self-preservation of an anti-cancer enzyme. <i>Biochemical Journal</i> , 2003, 376, 71-76.	3.7	35
29	GSTB1-1 from <i>Proteus mirabilis</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 18777-18784.	3.4	42
30	Human Glutathione Transferase P1-1 and Nitric Oxide Carriers. <i>Journal of Biological Chemistry</i> , 2001, 276, 42138-42145.	3.4	90
31	Human Glutathione Transferase T2-2 Discloses Some Evolutionary Strategies for Optimization of Substrate Binding to the Active Site of Glutathione Transferases. <i>Journal of Biological Chemistry</i> , 2001, 276, 5427-5431.	3.4	23
32	Lack of glutathione conjugation to adriamycin in human breast cancer MCF-7/DOX cells. <i>Biochemical Pharmacology</i> , 2000, 60, 1915-1923.	4.4	41
33	Valine 10 May Act as a Driver for Product Release from the Active Site of Human Glutathione Transferase P1-1. <i>Biochemistry</i> , 2000, 39, 15961-15970.	2.5	3
34	Identification of "tissue" transglutaminase binding proteins in neural cells committed to apoptosis. <i>FASEB Journal</i> , 1999, 13, 355-364.	0.5	95
35	Temperature Adaptation of Glutathione S-Transferase P1-1. <i>Journal of Biological Chemistry</i> , 1999, 274, 19276-19280.	3.4	44
36	The ligandin (non-substrate) binding site of human pi class glutathione transferase is located in the electrophile binding site (H-site). <i>Journal of Molecular Biology</i> , 1999, 291, 913-926.	4.2	121

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37	Proton release on binding of glutathione to Alpha, Mu and Delta class glutathione transferases. <i>Biochemical Journal</i> , 1999, 344, 419-425.	3.7	54
38	Proton release on binding of glutathione to Alpha, Mu and Delta class glutathione transferases. <i>Biochemical Journal</i> , 1999, 344, 419.	3.7	19
39	Evidence for an Induced-Fit Mechanism Operating in Pi Class Glutathione Transferases,. <i>Biochemistry</i> , 1998, 37, 9912-9917.	2.5	56
40	Structural and Functional Consequences of Haloenol Lactone Inactivation of Murine and Human Glutathione S-Transferase. <i>Biochemistry</i> , 1998, 37, 6752-6759.	2.5	26
41	Proton Release upon Glutathione Binding to Glutathione Transferase P1-1:Â Kinetic Analysis of a Multistep Glutathione Binding Processâ€. <i>Biochemistry</i> , 1998, 37, 3028-3034.	2.5	58
42	Solution Structure of Glutathione Bound to Human Glutathione Transferase P1-1:Â Comparison of NMR Measurements with the Crystal Structureâ€. <i>Biochemistry</i> , 1998, 37, 3020-3027.	2.5	28
43	Shifting Substrate Specificity of Human Glutathione Transferase (from Class Pi to Class Alpha) by a Single Point Mutation. <i>Biochemical and Biophysical Research Communications</i> , 1998, 252, 184-189.	2.1	22
44	Mutations of gly to ala in human glutathione transferase P1-1 affect helix 2 (G-site) and induce positive cooperativity in the binding of glutathione 1 1Edited by R. Huber. <i>Journal of Molecular Biology</i> , 1998, 284, 1717-1725.	4.2	29
45	Flexibility of Helix 2 in the Human Glutathione Transferase P1-1. <i>Journal of Biological Chemistry</i> , 1998, 273, 23267-23273.	3.4	35
46	Catalytic Mechanism and Role of Hydroxyl Residues in the Active Site of Theta Class Glutathione S-Transferases. <i>Journal of Biological Chemistry</i> , 1997, 272, 29681-29686.	3.4	68
47	The Three-Dimensional Structure of the Human Pi Class Glutathione Transferase P1-1 in Complex with the Inhibitor Ethacrynic Acid and Its Glutathione Conjugate,. <i>Biochemistry</i> , 1997, 36, 576-585.	2.5	125
48	Multifunctional Role of Tyr 108 in the Catalytic Mechanism of Human Glutathione Transferase P1-1. Crystallographic and Kinetic Studies on the Y108F Mutant Enzymeâ€,â€. <i>Biochemistry</i> , 1997, 36, 6207-6217.	2.5	65
49	The structures of human glutathione transferase P1-1 in complex with glutathione and various inhibitors at high resolution. <i>Journal of Molecular Biology</i> , 1997, 274, 84-100.	4.2	172
50	The glutathione conjugate of ethacrynic acid can bind to human pi class glutathione transferase P1-1 in two different modes. <i>FEBS Letters</i> , 1997, 419, 32-36.	2.8	49
51	Interactions of Î±, Î²-unsaturated aldehydes and ketones with human glutathione S-transferase P1-1. <i>Chemico-Biological Interactions</i> , 1997, 108, 67-78.	4.0	111
52	Interaction of glutathione transferase P1-1 with captan and captafol. <i>Biochemical Pharmacology</i> , 1996, 52, 43-48.	4.4	20
53	Structural Flexibility Modulates the Activity of Human Glutathione Transferase P1-1. <i>Journal of Biological Chemistry</i> , 1996, 271, 16187-16192.	3.4	84
54	Site-directed Mutagenesis of Human Glutathione Transferase P1-1. <i>Journal of Biological Chemistry</i> , 1995, 270, 1243-1248.	3.4	87

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55	Site-directed Mutagenesis of Human Glutathione Transferase P1-1. Journal of Biological Chemistry, 1995, 270, 1249-1253.	3.4	71
56	Three-dimensional structure of class Î€ glutathione S-transferase from human placenta in complex with S-hexylglutathione at 2.8 Å... resolution. Journal of Molecular Biology, 1992, 227, 214-226.	4.2	273
57	Chemical modification of human placental glutathione transferase by pyridoxal 5â€²-phosphate. BBA - Proteins and Proteomics, 1992, 1121, 167-172.	2.1	11
58	Monoclonal Antibodies Against Human Placental Glutathione Transferase (Class Ð¿ ). Hybridoma, 1991, 10, 89-94.	0.6	3
59	Crystallization of glutathione S-transferase from human placenta. Journal of Molecular Biology, 1990, 213, 221-222.	4.2	78
60	Identification of a highly reactive sulphhydryl group in human placental glutathione transferase by a site-directed fluorescent reagent. FEBS Letters, 1990, 263, 389-391.	2.8	48