Bengt Mannervik

List of Publications by Year
in descending order

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264	16,663	28736 57	21239 119
papers	citations	h-index	g-index

264	264	264	11369
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neuroprotection against Aminochrome Neurotoxicity: Glutathione Transferase M2-2 and DT-Diaphorase. Antioxidants, 2022, 11, 296.	2.2	11
2	Astrocytes protect dopaminergic neurons against aminochrome neurotoxicity. Neural Regeneration Research, 2022, 17, 1861.	1.6	23
3	Structural and functional analysis of the inhibition of equine glutathione transferase A3-3 by organotin endocrine disrupting pollutants. Environmental Pollution, 2021, 268, 115960.	3.7	4
4	Cellular Trafficking of Glutathione Transferase M2-2 Between U373MG and SHSY-S7 Cells is Mediated by Exosomes. Neurotoxicity Research, 2021, 39, 182-190.	1.3	12
5	Characterization of Dog Glutathione Transferase P1-1, an Enzyme Relevant to Veterinary Medicine. International Journal of Molecular Sciences, 2021, 22, 4079.	1.8	3
6	Marmoset glutathione transferases with ketosteroid isomerase activity. Biochemistry and Biophysics Reports, 2021, 27, 101078.	0.7	3
7	Role of human glutathione transferases in biotransformation of the nitric oxide prodrug JS-K. Scientific Reports, 2021, 11, 20765.	1.6	5
8	Glutathione Transferases as Efficient Ketosteroid Isomerases. Frontiers in Molecular Biosciences, 2021, 8, 765970.	1.6	12
9	Structure and steroid isomerase activity of Drosophila glutathione transferase E14 essential for ecdysteroid biosynthesis. FEBS Letters, 2020, 594, 1187-1195.	1.3	13
10	Interactions Between Odorants and Glutathione Transferases in the Human Olfactory Cleft. Chemical Senses, 2020, 45, 645-654.	1.1	26
11	Mutational Analysis of the Binding of Alternative Substrates and Inhibitors to the Active Site of Human Glutathione Transferase P1â€“1. Processes, 2020, 8, 1232.	1.3	1
12	Potent inhibitors of equine steroid isomerase EcaGST A3-3. PLoS ONE, 2019, 14, e0214160.	1.1	5
13	Novel Alpha-Synuclein Oligomers Formed with the Aminochrome-Glutathione Conjugate Are Not Neurotoxic. Neurotoxicity Research, 2019, 35, 432-440.	1.3	15
14	Design and synthesis of 2-substituted-5-(4-trifluoromethylphenyl-sulphonamido)benzoxazole derivatives as human GST P1-1 inhibitors. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 510-517.	1.9	8
15	Characterization of equine GST A3-3 as a steroid isomerase. Journal of Steroid Biochemistry and Molecular Biology, 2018, 178, 117-126.	1.2	16
16	Expression of a Drosophila glutathione transferase in Arabidopsis confers the ability to detoxify the environmental pollutant, and explosive, 2,4,6â€trinitrotoluene. New Phytologist, 2017, 214, 294-303.	3.5	21
17	Exploring sequence-function space of a poplar glutathione transferase using designed information-rich gene variants. Protein Engineering, Design and Selection, 2017, 30, 543-549.	1.0	15
18	Drosophila GSTs display outstanding catalytic efficiencies with the environmental pollutants 2,4,6-trinitrotoluene and 2,4-dinitrotoluene. Biochemistry and Biophysics Reports, 2016, 5, 141-145.	0.7	7

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19	Evolution of Negative Cooperativity in Glutathione Transferase Enabled Preservation of Enzyme Function. Journal of Biological Chemistry, 2016, 291, 26739-26749.	1.6	24
20	Comparison of epsilon- and delta-class glutathioneS-transferases: the crystal structures of the glutathioneS-transferases DmGSTE6 and DmGSTE7 fromDrosophila melanogaster. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 2089-2098.	2.5	9
21	On the biosynthesis of 15-HETE and eoxin C4 by human airway epithelial cells. Prostaglandins and Other Lipid Mediators, 2015, 121, 83-90.	1.0	23
22	Evolution of the active site of human glutathione transferase A2-2 for enhanced activity with dietary isothiocyanates. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 742-749.	1.1	8
23	Identification of new inhibitors for human hematopoietic prostaglandin D2 synthase among FDA-approved drugs and other compounds. Chemico-Biological Interactions, 2015, 229, 91-99.	1.7	15
24	Mapping of Amino Acid Substitutions Conferring Herbicide Resistance in Wheat Glutathione Transferase. ACS Synthetic Biology, 2015, 4, 221-227.	1.9	32
25	Glutathione Transferase-M2-2 Secreted from Glioblastoma Cell Protects SH-SY5Y Cells from Aminochrome Neurotoxicity. Neurotoxicity Research, 2015, 27, 217-228.	1.3	44
26	Substrate specificities of two tau class glutathione transferases inducible by 2,4,6-trinitrotoluene in poplar. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1877-1883.	1.1	10
27	Overexpression of Glutathione Transferase E7 in Drosophila Differentially Impacts Toxicity of Organic Isothiocyanates in Males and Females. PLoS ONE, 2014, 9, e110103.	1.1	10
28	Glutathione transferase mu 2 protects glioblastoma cells against aminochrome toxicity by preventing autophagy and lysosome dysfunction. Autophagy, 2014, 10, 618-630.	4.3	59
29	Isomerization of Î”⁵-Androstene-3,17-dione into Î”⁴-Androstene-3,17-dione Catalyzed by Human Glutathione Transferase A3-3: A Computational Study Identifies a Dual Role for Glutathione. Journal of Physical Chemistry A, 2014, 118, 5790-5800.	1.1	14
30	Glutathione Transferases in the Bioactivation of Azathioprine. Advances in Cancer Research, 2014, 122, 199-244.	1.9	21
31	Glutathione transferases immobilized on nanoporous alumina: Flow system kinetics, screening, and stability. Analytical Biochemistry, 2014, 446, 59-63.	1.1	12
32	An improved dual-tube megaprimer approach for multi-site saturation mutagenesis. World Journal of Microbiology and Biotechnology, 2013, 29, 667-672.	1.7	3
33	Fluorogenic probes using 4-substituted-2-nitrobenzenesulfonyl derivatives as caging groups for the analysis of human glutathione transferase catalyzed reactions. Analyst, The, 2013, 138, 7326.	1.7	17
34	Hidden Allostery in Human Glutathione Transferase P1-1 Unveiled by Unnatural Amino Acid Substitutions and Inhibition Studies. Journal of Molecular Biology, 2013, 425, 1509-1514.	2.0	17
35	FDA-approved drugs and other compounds tested as inhibitors of human glutathione transferase P1-1. Chemico-Biological Interactions, 2013, 205, 53-62.	1.7	39
36	Mechanism of Glutathione Transferase P1-1-Catalyzed Activation of the Prodrug Canfosfamide (TLK286,) Tj ETQq0 0 0 rgBT /Overlock 10	1.2	29

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37	Evolution of Broad Spectrum Î²-Lactam Resistance in an Engineered Metallo-Î²-lactamase. Journal of Biological Chemistry, 2013, 288, 2314-2324.	1.6	15
38	Enzymatic Detoxication, Conformational Selection, and the Role of Molten Globule Active Sites. Journal of Biological Chemistry, 2013, 288, 18599-18611.	1.6	41
39	Five Decades with Glutathione and the GSTome. Journal of Biological Chemistry, 2012, 287, 6072-6083.	1.6	44
40	Inhibition of human glutathione transferase P1-1 by novel benzazole Derivatives. Turkish Journal of Biochemistry, 2012, 37, 431-436.	0.3	7
41	Universal Caging Group for the inâ€Cell Detection of Glutathione Transferase Applied to ¹⁹F NMR and Bioluminogenic Probes. ChemBioChem, 2012, 13, 1428-1432.	1.3	17
42	Structure-Based Redesign of GST A2-2 for Enhanced Catalytic Efficiency with Azathioprine. Chemistry and Biology, 2012, 19, 414-421.	6.2	17
43	Synthesis and Characterization of a Series of Highly Fluorogenic Substrates for Glutathione Transferases, a General Strategy. Journal of the American Chemical Society, 2011, 133, 14109-14119.	6.6	112
44	Characterization of porcine Alpha-class glutathione transferase A1-1. Archives of Biochemistry and Biophysics, 2011, 507, 205-211.	1.4	7
45	Functional studies of single-nucleotide polymorphic variants of human glutathione transferase T1-1 involving residues in the dimer interface. Archives of Biochemistry and Biophysics, 2011, 513, 87-93.	1.4	2
46	Engineering GST M2-2 for High Activity with Indene 1,2-Oxide and Indication of an H-Site Residue Sustaining Catalytic Promiscuity. Journal of Molecular Biology, 2011, 412, 111-120.	2.0	18
47	Biosynthesis of 14,15â€Hepoxilins in Human L1236 Hodgkin Lymphoma Cells and Eosinophils. Lipids, 2011, 46, 69-79.	0.7	12
48	Quantitative and selective polymerase chain reaction analysis of highly similar human alpha-class glutathione transferases. Analytical Biochemistry, 2011, 412, 96-101.	1.1	8
49	Experimental conditions affecting functional comparison of highly active glutathione transferases. Analytical Biochemistry, 2011, 413, 16-23.	1.1	3
50	Cys-X Scanning for Expansion of Active-site Residues and Modulation of Catalytic Functions in a Glutathione Transferase. Journal of Biological Chemistry, 2011, 286, 16871-16878.	1.6	8
51	Porcine glutathione transferase Alpha 2-2 is a human GST A3-3 analogue that catalyses steroid double-bond isomerization. Biochemical Journal, 2010, 431, 159-167.	1.7	18
52	Differences among allelic variants of human glutathione transferase A2-2 in the activation of azathioprine. Chemico-Biological Interactions, 2010, 186, 110-117.	1.7	25
53	The quest for molecular quasiâ€species in ligandâ€activity space and its application to directed enzyme evolution. FEBS Letters, 2010, 584, 2565-2571.	1.3	9
54	Minor Modifications of the C-terminal Helix Reschedule the Favored Chemical Reactions Catalyzed by Theta Class Glutathione Transferase T1-1. Journal of Biological Chemistry, 2010, 285, 5639-5645.	1.6	11

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55	Glutathione Transferase A1-1: Catalytic Importance of Arginine 15. Journal of Physical Chemistry B, 2010, 114, 1690-1697.	1.2	19
56	Structural Basis for Featuring of Steroid Isomerase Activity in Alpha Class Glutathione Transferases. Journal of Molecular Biology, 2010, 397, 332-340.	2.0	38
57	A Novel Quasi-Species of Glutathione Transferase with High Activity towards Naturally Occurring Isothiocyanates Evolves from Promiscuous Low-Activity Variants. Journal of Molecular Biology, 2010, 401, 451-464.	2.0	22
58	Molecular evolution of Theta-class glutathione transferase for enhanced activity with the anticancer drug 1,3-bis-(2-chloroethyl)-1-nitrosourea and other alkylating agents. Archives of Biochemistry and Biophysics, 2010, 497, 28-34.	1.4	10
59	Single-nucleotide polymorphic variants of human glutathione transferase T1-1 differ in stability and functional properties. Archives of Biochemistry and Biophysics, 2009, 490, 24-29.	1.4	12
60	Multi-substrateâ€“activity space and quasi-species in enzyme evolution: Ohno's dilemma, promiscuity and functional orthogonality. Biochemical Society Transactions, 2009, 37, 740-744.	1.6	16
61	Glutathione Transferase: New Model for Glutathione Activation. Chemistry - A European Journal, 2008, 14, 9591-9598.	1.7	59
62	Glutathione transferase activity with a novel substrate mimics the activation of the prodrug azathioprine. Analytical Biochemistry, 2008, 375, 339-344.	1.1	16
63	Structural Determinants of Glutathione Transferases with Azathioprine Activity Identified by DNA Shuffling of Alpha Class Members. Journal of Molecular Biology, 2008, 375, 1365-1379.	2.0	28
64	Modulating Catalytic Activity by Unnatural Amino Acid Residues in a GSH-Binding Loop of GST P1-1. Journal of Molecular Biology, 2008, 376, 811-826.	2.0	15
65	Emergence of Novel Enzyme Quasi-Species Depends on the Substrate Matrix. Journal of Molecular Biology, 2008, 382, 136-153.	2.0	13
66	Emergence of a novel highly specific and catalytically efficient enzyme from a naturally promiscuous glutathione transferase. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 1458-1463.	1.1	16
67	MOLECULAR ENZYMOLOGY OF THE GLYOXALASE SYSTEM. Drug Metabolism and Drug Interactions, 2008, 23, 13-28.	0.3	62
68	Targeting human glutathione transferase A3-3 attenuates progesterone production in human steroidogenic cells. Biochemical Journal, 2008, 414, 103-109.	1.7	25
69	Colorimetric endpoint assay for enzyme-catalyzed iodide ion release for high-throughput screening in microtiter plates. Archives of Biochemistry and Biophysics, 2007, 464, 284-287.	1.4	12
70	Human glutathione transferases catalyzing the bioactivation of anticancer thiopurine prodrugs. Biochemical Pharmacology, 2007, 73, 1829-1841.	2.0	19
71	Design and Evolution of New Catalytic Activity with an Existing Protein Scaffold. Science, 2006, 311, 535-538.	6.0	240
72	Structural Basis of the Suppressed Catalytic Activity of Wild-type Human Glutathione Transferase T1-1 Compared to its W234R Mutant. Journal of Molecular Biology, 2006, 355, 96-105.	2.0	36

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73	New crystal structures of human glutathione transferase A1-1 shed light on glutathione binding and the conformation of the C-terminal helix. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 197-207.	2.5	55
74	Replacement Surgery with Unnatural Amino Acids in the Lock-and-Key Joint of Glutathione Transferase Subunits. Chemistry and Biology, 2006, 13, 929-936.	6.2	13
75	Screening and characterization of variant Theta-class glutathione transferases catalyzing the activation of ethylene dibromide to a mutagen. Environmental and Molecular Mutagenesis, 2006, 47, 657-665.	0.9	10
76	The Isoenzymes of Glutathione Transferase. Advances in Enzymology and Related Areas of Molecular Biology, 2006, 57, 357-417.	1.3	482
77	Divergent Activities of Human Glutathione Transferases in the Bioactivation of Azathioprine. Molecular Pharmacology, 2006, 70, 747-754.	1.0	114
78	Alternative mutations of a positively selected residue elicit gain or loss of functionalities in enzyme evolution. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4876-4881.	3.3	29
79	Functionally diverging molecular quasi-species evolve by crossing two enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10866-10870.	3.3	24
80	Identification of functionally diverging quasiâ€species in molecular enzyme evolution. FASEB Journal, 2006, 20, A470.	0.2	0
81	A Positively Selected Residue Influences Enzyme Functionalities. FASEB Journal, 2006, 20, A474.	0.2	0
82	Regio- and enantioselectivities in epoxide conjugations are modulated by residue 210 in Mu class glutathione transferases. Protein Engineering, Design and Selection, 2005, 18, 607-616.	1.0	7
83	Peptide Phage Display for Probing GSTâ€“Protein Interactions. Methods in Enzymology, 2005, 401, 354-367.	0.4	0
84	Human Glutathione Transferase A3â€3 Active as Steroid Doubleâ€Bond Isomerase. Methods in Enzymology, 2005, 401, 265-278.	0.4	13
85	Nomenclature for Mammalian Soluble Glutathione Transferases. Methods in Enzymology, 2005, 401, 1-8.	0.4	263
86	Optimizing the Heterologous Expression of Glutathione Transferase. Methods in Enzymology, 2005, 401, 254-265.	0.4	1
87	Directed enzyme evolution guided by multidimensional analysis of substrate-activity space. Protein Engineering, Design and Selection, 2004, 17, 49-55.	1.0	26
88	Functional Role of the Lock and Key Motif at the Subunit Interface of Glutathione Transferase P1-1. Journal of Biological Chemistry, 2004, 279, 9586-9596.	1.6	59
89	Selective expression of detoxifying glutathione transferases in mouse colon: effect of experimental colitis and the presence of bacteria. Histochemistry and Cell Biology, 2004, 122, 151-9.	0.8	15
90	Purification, crystallization and preliminary X-ray data of the transcription factor NtcA from the cyanobacteriumAnabaenaPCC 7120. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 923-925.	2.5	1

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91	Incorporation of a single His residue by rational design enables thiol-ester hydrolysis by human glutathione transferase A1-1. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13163-13167.	3.3	29
92	Mechanism of the Glutathione Transferase-Catalyzed Conversion of Antitumor 2-Crotonyloxymethyl-2-cycloalkenones to GSH Adducts. Journal of the American Chemical Society, 2003, 125, 15049-15058.	6.6	49
93	Contribution of Glycine 146 to a Conserved Folding Module Affecting Stability and Refolding of Human Glutathione Transferase P1-1. Journal of Biological Chemistry, 2003, 278, 1291-1302.	1.6	21
94	Identification of Residues in Glutathione Transferase Capable of Driving Functional Diversification in Evolution. Journal of Biological Chemistry, 2003, 278, 8733-8738.	1.6	110
95	Novel polymorphisms in the glutathione transferase superfamily. Pharmacogenetics and Genomics, 2003, 13, 127-128.	5.7	2
96	Measurement of Glutathione Transferases. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2002, 14, Unit6.4.	1.1	8
97	Transmutation of Human Glutathione Transferase A2-2 with Peroxidase Activity into an Efficient Steroid Isomerase. Journal of Biological Chemistry, 2002, 277, 30019-30022.	1.6	53
98	Inactivation of Carcinogenic Diol Epoxides of Dibenzo[a,l]pyrene (Dibenzo[def,p]chrysene) by Human Alpha Class Glutathione Transferases. Polycyclic Aromatic Compounds, 2002, 22, 823-829.	1.4	0
99	The Cyclopentenone Product of Lipid Peroxidation, 15-A2t-Isoprostane (8-Isoprostaglandin A2), Is Efficiently Conjugated with Glutathione by Human and Rat Glutathione Transferase A4-4. Chemical Research in Toxicology, 2002, 15, 1114-1118.	1.7	40
100	Hybridization of alpha class subunits generating a functional glutathione transferase A1-4 heterodimer. Journal of Molecular Biology, 2002, 316, 395-406.	2.0	8
101	Catalytic Activities of Human Alpha Class Glutathione Transferases toward Carcinogenic Dibenzo[a,l]pyrene Diol Epoxidesâ€. Chemical Research in Toxicology, 2002, 15, 825-831.	1.7	29
102	An Ensemble of Theta Class Glutathione Transferases with Novel Catalytic Properties Generated by Stochastic Recombination of Fragments of Two Mammalian Enzymes. Journal of Molecular Biology, 2002, 318, 59-70.	2.0	36
103	Active-site Residues Governing High Steroid Isomerase Activity in Human Glutathione Transferase A3-3. Journal of Biological Chemistry, 2002, 277, 16648-16654.	1.6	46
104	The polymorphic human glutathione transferase T1-1, the most efficient glutathione transferase in the denitrosation and inactivation of the anticancer drug 1,3-bis(2-chloroethyl)-1-nitrosourea. Biochemical Pharmacology, 2002, 63, 191-197.	2.0	40
105	Probing Biomolecular Interactions of Glutathione Transferase M2-2 by using Peptide Phage Display. ChemBioChem, 2002, 3, 823-828.	1.3	4
106	High-Resolution Capillary Zone and Gel Electrophoresis of Structurally Similar Amphipathic Glutathione Conjugates Based on Interaction with -Cyclodextrins. ChemBioChem, 2002, 3, 1117-1125.	1.3	7
107	Inhibition of glutathione S-transferases by antimalarial drugs possible implications for circumventing anticancer drug resistance. International Journal of Cancer, 2002, 97, 700-705.	2.3	64
108	A Semisynthetic Glutathione Peroxidase with High Catalytic Efficiency. Chemistry and Biology, 2002, 9, 789-794.	6.2	56

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109	Screening for recombinant glutathione transferases active with monochlorobimane. Analytical Biochemistry, 2002, 309, 102-108.	1.1	23
110	Synthesis and characterization of 6-chloroacetyl-2-dimethylaminonaphthalene as a fluorogenic substrate and a mechanistic probe for glutathione transferases. Analytical Biochemistry, 2002, 311, 171-178.	1.1	32
111	A Highly Acidic Tyrosine 9 and a Normally Titrating Tyrosine 212 Contribute to the Catalytic Mechanism of Human Glutathione Transferase A4-4. Biochemical and Biophysical Research Communications, 2001, 280, 878-882.	1.0	18
112	Disorder-to-Order Transition of the Active Site of Human Class Pi Glutathione Transferase, GST P1-1â€. Biochemistry, 2001, 40, 11660-11669.	1.2	30
113	Proposed reductive metabolism of artemisinin by glutathione transferasesin vitro. Free Radical Research, 2001, 35, 427-434.	1.5	21
114	Yeast Glyoxalase I Is a Monomeric Enzyme with Two Active Sites. Journal of Biological Chemistry, 2001, 276, 1845-1849.	1.6	49
115	Human Glutathione Transferase A1-1 Demonstrates Both Half-of-the-sites and All-of-the-sites Reactivity. Journal of Biological Chemistry, 2001, 276, 35599-35605.	1.6	17
116	Human Glutathione Transferase A3-3, a Highly Efficient Catalyst of Double-bond Isomerization in the Biosynthetic Pathway of Steroid Hormones. Journal of Biological Chemistry, 2001, 276, 33061-33065.	1.6	168
117	The Folding and Stability of Human Alpha Class Glutathione Transferase A1-1 Depend on Distinct Roles of a Conserved N-capping Box and Hydrophobic Staple Motif. Journal of Biological Chemistry, 2001, 276, 32177-32183.	1.6	43
118	The Role of Glutathione in the Isomerization of Î”5-Androstene- 3,17-dione Catalyzed by Human Glutathione Transferase A1-1. Journal of Biological Chemistry, 2001, 276, 11698-11704.	1.6	47
119	[23] Use of phage display and transition-state analogs to select enzyme variants with altered catalytic properties: Glutathione transferase as an example. Methods in Enzymology, 2000, 328, 389-404.	0.4	8
120	[28] Use of chimeras generated by DNA shuffling: Probing structure-function relationships among glutathione transferases. Methods in Enzymology, 2000, 328, 463-477.	0.4	8
121	Kinetic properties of missense mutations in patients with glutathione synthetase deficiency. Biochemical Journal, 2000, 349, 275-279.	1.7	25
122	A Conserved â€œHydrophobic Staple Motifâ€•Plays a Crucial Role in the Refolding of Human Glutathione Transferase P1-1. Journal of Biological Chemistry, 2000, 275, 10421-10428.	1.6	36
123	Active Site Serine Promotes Stabilization of the Reactive Glutathione Thiolate in Rat Glutathione Transferase T2-2. Journal of Biological Chemistry, 2000, 275, 8618-8624.	1.6	19
124	The Human Glutathione Transferase P1-1 Specific Inhibitor TER 117 Designed for Overcoming Cytostatic-Drug Resistance Is also a Strong Inhibitor of Glyoxalase I. Molecular Pharmacology, 2000, 57, 619-624.	1.0	16
125	Tyrosine 50 at the Subunit Interface of Dimeric Human Glutathione Transferase P1-1 Is a Structural Key Residue for Modulating Protein Stability and Catalytic Function. Biochemical and Biophysical Research Communications, 2000, 271, 59-63.	1.0	52
126	Glutathione Transferase M2-2 Catalyzes Conjugation of Dopamine and Dopa o-Quinones. Biochemical and Biophysical Research Communications, 2000, 274, 32-36.	1.0	105

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127	Examination of the transcription factor NtcA-binding motif by in vitro selection of DNA sequences from a random library 1 1Edited by K. Nayai. Journal of Molecular Biology, 2000, 301, 783-793.	2.0	39
128	Structures of thermolabile mutants of human glutathione transferase P1-1 1 1Edited by R. Huber. Journal of Molecular Biology, 2000, 302, 295-302.	2.0	17
129	ROLE OF GLUTATHIONE TRANSFERASES IN THE METABOLISM OF ENDOBIOTICS AND XENOBIOTICS. Drug Metabolism and Pharmacokinetics, 2000, 15, 62-64.	0.0	0
130	Crystal structure of human glyoxalase II and its complex with a glutathione thiolester substrate analogue. Structure, 1999, 7, 1067-1078.	1.6	176
131	The C-Terminal Region of Human Glutathione Transferase A1-1 Affects the Rate of Glutathione Binding and the Ionization of the Active-Site Tyr9â€. Biochemistry, 1999, 38, 16268-16275.	1.2	52
132	Evolution of differential substrate specificities in Mu class glutathione transferases probed by DNA shuffling 1 1Edited by R. Huber. Journal of Molecular Biology, 1999, 287, 265-276.	2.0	58
133	Human glutathione transferase A4-4 crystal structures and mutagenesis reveal the basis of high catalytic efficiency with toxic lipid peroxidation products. Journal of Molecular Biology, 1999, 288, 427-439.	2.0	171
134	Benzoic acid derivatives induce recovery of catalytic activity in the partially inactive Met208Lys mutant of human glutathione transferase A1-1 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 1999, 288, 787-800.	2.0	36
135	Unfolding and Refolding of Human Glyoxalase II and its Single-tryptophan Mutants. Journal of Molecular Biology, 1999, 291, 481-490.	2.0	10
136	Optimized Heterologous Expression of Glutathione Reductase from CyanobacteriumAnabaenaPCC 7120 and Characterization of the Recombinant Protein. Protein Expression and Purification, 1999, 15, 92-98.	0.6	13
137	Use of Silent Mutations in cDNA Encoding Human Glutathione Transferase M2-2 for Optimized Expression in Escherichia coli. Protein Expression and Purification, 1999, 17, 105-112.	0.6	45
138	Expression and Purification of the Transcription Factor NtcA from the Cyanobacterium Anabaena PCC 7120. Protein Expression and Purification, 1999, 17, 351-357.	0.6	11
139	An approach to optimizing the active site in a glutathione transferase by evolution in vitro. Biochemical Journal, 1999, 344, 93-100.	1.7	19
140	Catalytic Efficiency of Glutathione Transferase P1-1 Variants Towards Bay- and Fjord-Region Diol Epoxides of Polycyclic Aromatic Hydrocarbons. Polycyclic Aromatic Compounds, 1999, 17, 43-51.	1.4	1
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142	Detoxication of carcinogenic fjord-region diol epoxides of polycyclic aromatic hydrocarbons by glutathione transferase P1-1 variants and glutathione. FEBS Letters, 1998, 438, 206-210.	1.3	39
143	Analysis of the Role of the Active Site Tyrosine in Human Glutathione Transferase A1-1 by Unnatural Amino Acid Mutagenesis. Journal of the American Chemical Society, 1998, 120, 451-452.	6.6	30
144	Structure-activity relationships and thermal stability of human glutathione transferase P1-1 governed by the H-site residue 105. Journal of Molecular Biology, 1998, 278, 687-698.	2.0	173

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145	Involvement of an Active-site Zn2+ Ligand in the Catalytic Mechanism of Human Glyoxalase I. Journal of Biological Chemistry, 1998, 273, 21623-21628.	1.6	74
146	Human glutathione transferase A4-4: an Alpha class enzyme with high catalytic efficiency in the conjugation of 4-hydroxynonenal and other genotoxic products of lipid peroxidation. Biochemical Journal, 1998, 330, 175-179.	1.7	341
147	Phospholipid hydroperoxide glutathione peroxidase activity of human glutathione transferases. Biochemical Journal, 1998, 332, 97-100.	1.7	145
148	Human Class Mu Glutathione Transferases, in Particular Isoenzyme M2-2, Catalyze Detoxication of the Dopamine Metabolite Aminochrome. Journal of Biological Chemistry, 1997, 272, 5727-5731.	1.6	117
149	The Conserved N-capping Box in the Hydrophobic Core of Glutathione S-Transferase P1â€“1 Is Essential for Refolding. Journal of Biological Chemistry, 1997, 272, 25518-25523.	1.6	39
150	Mutagenesis of residue 157 in the active site of human glyoxalase I. Biochemical Journal, 1997, 328, 231-235.	1.7	29
151	Molecular cloning and characterization of the thiolesterase glyoxalase II from Arabidopsis thaliana. Biochemical Journal, 1997, 322, 449-454.	1.7	45
152	3 Phospholipid hydroperoxide glutathione peroxidase activity of rat class Theta glutathione transferase T2-2. Biochemical Society Transactions, 1997, 25, S559-S559.	1.6	10
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