

Bengt Mannervik

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261 papers	14,678 citations	54 h-index	113 g-index
264 ext. papers	15,349 ext. citations	4.3 avg, IF	6.17 L-index

#	Paper	IF	Citations
261	Glutathione reductase. <i>Methods in Enzymology</i> , 1985 , 113, 484-90	1.7	1998
260	Glutathione transferases--structure and catalytic activity. <i>Critical Reviews in Biochemistry</i> , 1988 , 23, 283-337		1432
259	Glutathione transferase (human placenta). <i>Methods in Enzymology</i> , 1981 , 77, 231-5	1.7	490
258	Structure determination and refinement of human alpha class glutathione transferase A1-1, and a comparison with the Mu and Pi class enzymes. <i>Journal of Molecular Biology</i> , 1993 , 232, 192-212	6.5	428
257	4-Hydroxyalk-2-enals are substrates for glutathione transferase. <i>FEBS Letters</i> , 1985 , 179, 267-70	3.8	353
256	The isoenzymes of glutathione transferase. <i>Advances in Enzymology and Related Areas of Molecular Biology</i> , 1985 , 57, 357-417		348
255	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. <i>Biochemical Journal</i> , 1998 , 330 (Pt 1), 175-9	3.8	319
254	Glutathione transferases catalyse the detoxication of oxidized metabolites (o-quinones) of catecholamines and may serve as an antioxidant system preventing degenerative cellular processes. <i>Biochemical Journal</i> , 1997 , 324 (Pt 1), 25-8	3.8	281
253	Nomenclature for mammalian soluble glutathione transferases. <i>Methods in Enzymology</i> , 2005 , 401, 1-8	1.7	236
252	Glutathione transferases: nomenclature. <i>Biochemical Pharmacology</i> , 1984 , 33, 2539-40	6	233
251	Design and evolution of new catalytic activity with an existing protein scaffold. <i>Science</i> , 2006 , 311, 535-8	33.3	213
250	Glutathione transferases from human liver. <i>Methods in Enzymology</i> , 1985 , 113, 499-504	1.7	182
249	Structural analysis of human alpha-class glutathione transferase A1-1 in the apo-form and in complexes with ethacrynic acid and its glutathione conjugate. <i>Structure</i> , 1995 , 3, 717-27	5.2	176
248	Human glutathione transferase A4-4 crystal structures and mutagenesis reveal the basis of high catalytic efficiency with toxic lipid peroxidation products. <i>Journal of Molecular Biology</i> , 1999 , 288, 427-39	6.5	165
247	Structure-activity relationships and thermal stability of human glutathione transferase P1-1 governed by the H-site residue 105. <i>Journal of Molecular Biology</i> , 1998 , 278, 687-98	6.5	156
246	Crystal structure of human glyoxalase II and its complex with a glutathione thiolester substrate analogue. <i>Structure</i> , 1999 , 7, 1067-78	5.2	152
245	Human glutathione transferase A3-3, a highly efficient catalyst of double-bond isomerization in the biosynthetic pathway of steroid hormones. <i>Journal of Biological Chemistry</i> , 2001 , 276, 33061-5	5.4	146

244	Rat glutathione transferase 8-8, an enzyme efficiently detoxifying 4-hydroxyalk-2-enals. <i>FEBS Letters</i> , 1986 , 203, 207-9	3.8	138
243	Purification and characterization of cytoplasmic thioltransferase (glutathione:disulfide oxidoreductase) from rat liver. <i>Biochemistry</i> , 1978 , 17, 2978-84	3.2	130
242	Regression analysis, experimental error, and statistical criteria in the design and analysis of experiments for discrimination between rival kinetic models. <i>Methods in Enzymology</i> , 1982 , 87, 370-90	1.7	128
241	Phospholipid hydroperoxide glutathione peroxidase activity of human glutathione transferases. <i>Biochemical Journal</i> , 1998 , 332 (Pt 1), 97-100	3.8	125
240	Purification of major basic glutathione transferase isoenzymes from rat liver by use of affinity chromatography and fast protein liquid chromatofocusing. <i>Analytical Biochemistry</i> , 1985 , 146, 313-20	3.1	124
239	Purification of a new glutathione S-transferase (transferase mu) from human liver having high activity with benzo(alpha)pyrene-4,5-oxide. <i>Biochemical and Biophysical Research Communications</i> , 1981 , 98, 512-9	3.4	116
238	Glutathione transferases in rat lung: the presence of transferase 7-7, highly efficient in the conjugation of glutathione with the carcinogenic (+)-7 beta, 8 alpha-dihydroxy-9 alpha, 10 alpha-oxy-7,8,9,10-tetrahydrobenzo[a]pyrene. <i>Carcinogenesis</i> , 1986 , 7, 295-9	4.6	112
237	Human class Mu glutathione transferases, in particular isoenzyme M2-2, catalyze detoxication of the dopamine metabolite aminochrome. <i>Journal of Biological Chemistry</i> , 1997 , 272, 5727-31	5.4	104
236	Glutathione conjugation of bay- and fjord-region diol epoxides of polycyclic aromatic hydrocarbons by glutathione transferases M1-1 and P1-1. <i>Chemical Research in Toxicology</i> , 1997 , 10, 1221-7	4	102
235	Expression of class Pi glutathione transferase in human malignant melanoma cells. <i>Carcinogenesis</i> , 1987 , 8, 1929-32	4.6	98
234	Synthesis and characterization of a series of highly fluorogenic substrates for glutathione transferases, a general strategy. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14109-19	16.4	97
233	Divergent activities of human glutathione transferases in the bioactivation of azathioprine. <i>Molecular Pharmacology</i> , 2006 , 70, 747-54	4.3	96
232	Glutathione transferases with novel active sites isolated by phage display from a library of random mutants. <i>Journal of Molecular Biology</i> , 1995 , 250, 115-22	6.5	94
231	Glutathione transferase from rat testis. <i>Methods in Enzymology</i> , 1985 , 113, 507-10	1.7	94
230	Glyoxalase I, a zinc metalloenzyme of mammals and yeast. <i>Biochemical and Biophysical Research Communications</i> , 1978 , 81, 1235-40	3.4	94
229	Mutation of an evolutionarily conserved tyrosine residue in the active site of a human class Alpha glutathione transferase. <i>FEBS Letters</i> , 1991 , 293, 153-5	3.8	92
228	Glutathione transferase M2-2 catalyzes conjugation of dopamine and dopa o-quinones. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 274, 32-6	3.4	91
227	Purification of glutathione S-transferases from rat lung by affinity chromatography. Evidence for an enzyme form absent in rat liver. <i>Biochemical and Biophysical Research Communications</i> , 1979 , 86, 1304-10	3.4	80

226	Glutathione S-transferase A1-1-catalysed conjugation of bay and fjord region diol epoxides or polycyclic aromatic hydrocarbons with glutathione. <i>Carcinogenesis</i> , 1996 , 17, 1491-8	4.6	79
225	Identification of residues in glutathione transferase capable of driving functional diversification in evolution. A novel approach to protein redesign. <i>Journal of Biological Chemistry</i> , 2003 , 278, 8733-8	5.4	77
224	Inhibitors for distinction of three types of human glutathione transferase. <i>FEBS Letters</i> , 1985 , 181, 249-52	5.8	75
223	Differences among human tumor cell lines in the expression of glutathione transferases and other glutathione-linked enzymes. <i>Carcinogenesis</i> , 1990 , 11, 1569-76	4.6	73
222	Conjugation of highly reactive aflatoxin B1 exo-8,9-epoxide catalyzed by rat and human glutathione transferases: estimation of kinetic parameters. <i>Biochemistry</i> , 1997 , 36, 3056-60	3.2	72
221	The enzymes of glutathione metabolism: an overview. <i>Biochemical Society Transactions</i> , 1987 , 15, 717-8	5.1	69
220	Involvement of an active-site Zn ²⁺ ligand in the catalytic mechanism of human glyoxalase I. <i>Journal of Biological Chemistry</i> , 1998 , 273, 21623-8	5.4	66
219	Molecular cloning, heterologous expression, and characterization of human glyoxalase II. <i>Journal of Biological Chemistry</i> , 1996 , 271, 319-23	5.4	64
218	Purification of glutathione-S-transferase from human placenta. <i>Acta Chemica Scandinavica</i> , 1979 , 33, 595-6		63
217	Inhibition of glutathione S-transferases by antimalarial drugs possible implications for circumventing anticancer drug resistance. <i>International Journal of Cancer</i> , 2002 , 97, 700-5	7.5	61
216	Acquired resistance to cisplatin and doxorubicin in a small cell lung cancer cell line is correlated to elevated expression of glutathione-linked detoxification enzymes. <i>Carcinogenesis</i> , 1994 , 15, 1167-73	4.6	60
215	Error structure of enzyme kinetic experiments. Implications for weighting in regression analysis of experimental data. <i>FEBS Journal</i> , 1976 , 69, 61-7		60
214	A branching reaction mechanism of glutathione reductase. <i>Biochemical and Biophysical Research Communications</i> , 1973 , 53, 1151-8	3.4	59
213	Benzo(alpha)pyrene quinones can be generated by lipid peroxidation and are conjugated with glutathione by glutathione S-transferase b from rat liver. <i>Biochemical and Biophysical Research Communications</i> , 1981 , 99, 682-90	3.4	58
212	Characterization of glyoxalase I purified from pig erythrocytes by affinity chromatography. <i>Biochemical Journal</i> , 1977 , 165, 503-9	3.8	58
211	Purification and characterization of glutathione reductase from calf liver. An improved procedure for affinity chromatography on 2S5SADP-Sepharose 4B. <i>Analytical Biochemistry</i> , 1981 , 116, 531-6	3.1	56
210	Selective expression of glutathione transferase isoenzymes in chemically induced preneoplastic rat hepatocyte nodules. <i>FEBS Letters</i> , 1985 , 187, 115-20	3.8	55
209	Heterologous expression of recombinant human glutathione transferase A1-1 from a hepatoma cell line. <i>Protein Expression and Purification</i> , 1992 , 3, 80-4	2	54

208	Leukotriene C4 formation catalyzed by three distinct forms of human cytosolic glutathione transferase. <i>Biochemical and Biophysical Research Communications</i> , 1985 , 128, 265-70	3.4	54
207	Structural evidence for three different types of glutathione transferase in human tissues. <i>FEBS Letters</i> , 1985 , 182, 319-22	3.8	54
206	Molecular enzymology of the glyoxalase system. <i>Drug Metabolism and Drug Interactions</i> , 2008 , 23, 13-27		53
205	Mechanism of action of enzymes catalyzing thiol-disulfide interchange. Thioltransferases rather than transhydrogenases. <i>FEBS Letters</i> , 1974 , 38, 263-7	3.8	53
204	Inhibition of choline acetyltransferase from bovine caudate nucleus by sulfhydryl reagents and reactivation of the inhibited enzyme. <i>Biochemical Pharmacology</i> , 1970 , 19, 2509-16	6	53
203	A semisynthetic glutathione peroxidase with high catalytic efficiency. Selenogluthathione transferase. <i>Chemistry and Biology</i> , 2002 , 9, 789-94		52
202	Evolution of differential substrate specificities in Mu class glutathione transferases probed by DNA shuffling. <i>Journal of Molecular Biology</i> , 1999 , 287, 265-76	6.5	52
201	A set of inhibitors for discrimination between the basic isozymes of glutathione transferase in rat liver. <i>Biochemical and Biophysical Research Communications</i> , 1983 , 114, 829-34	3.4	52
200	Glutathione transferase: new model for glutathione activation. <i>Chemistry - A European Journal</i> , 2008 , 14, 9591-8	4.8	51
199	Functional role of the lock and key motif at the subunit interface of glutathione transferase p1-1. <i>Journal of Biological Chemistry</i> , 2004 , 279, 9586-96	5.4	50
198	The C-terminal region of human glutathione transferase A1-1 affects the rate of glutathione binding and the ionization of the active-site Tyr9. <i>Biochemistry</i> , 1999 , 38, 16268-75	3.2	50
197	Optimized heterologous expression of the human zinc enzyme glyoxalase I. <i>Biochemical Journal</i> , 1996 , 314 (Pt 2), 463-7	3.8	50
196	Glutathione transferase mu 2 protects glioblastoma cells against aminochrome toxicity by preventing autophagy and lysosome dysfunction. <i>Autophagy</i> , 2014 , 10, 618-30	10.2	49
195	Kinetic characterization of recombinant human glutathione transferase T1-1, a polymorphic detoxication enzyme. <i>Archives of Biochemistry and Biophysics</i> , 1997 , 348, 247-54	4.1	49
194	Mechanism-based phage display selection of active-site mutants of human glutathione transferase A1-1 catalyzing SNAr reactions. <i>Biochemistry</i> , 1997 , 36, 11252-60	3.2	49
193	Transmutation of human glutathione transferase A2-2 with peroxidase activity into an efficient steroid isomerase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 30019-22	5.4	47
192	Transformation of leukotriene A4 methyl ester to leukotriene C4 monomethyl ester by cytosolic rat glutathione transferases. <i>FEBS Letters</i> , 1984 , 175, 289-93	3.8	47
191	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. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 271, 59-63	3.4	46

190	An essential role of cytosolic thioltransferase in protection of pyruvate kinase from rabbit liver against oxidative inactivation. <i>FEBS Letters</i> , 1983 , 152, 114-8	3.8	46
189	New crystal structures of human glutathione transferase A1-1 shed light on glutathione binding and the conformation of the C-terminal helix. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006 , 62, 197-207		45
188	Active-site residues governing high steroid isomerase activity in human glutathione transferase A3-3. <i>Journal of Biological Chemistry</i> , 2002 , 277, 16648-54	5.4	44
187	The role of glutathione in the isomerization of delta 5-androstene-3,17-dione catalyzed by human glutathione transferase A1-1. <i>Journal of Biological Chemistry</i> , 2001 , 276, 11698-704	5.4	44
186	Glyoxalase I (rat liver). <i>Methods in Enzymology</i> , 1981 , 77, 297-301	1.7	44
185	Reduction of thymine hydroperoxide by phospholipid hydroperoxide glutathione peroxidase and glutathione transferases. <i>FEBS Letters</i> , 1997 , 410, 210-2	3.8	43
184	Yeast glyoxalase I is a monomeric enzyme with two active sites. <i>Journal of Biological Chemistry</i> , 2001 , 276, 1845-9	5.4	43
183	Cloning, sequencing, and regulation of the glutathione reductase gene from the cyanobacterium <i>Anabaena</i> PCC 7120. <i>Journal of Biological Chemistry</i> , 1995 , 270, 22882-9	5.4	42
182	Purification of glyoxalase I from human erythrocytes by the use of affinity chromatography and separation of the three isoenzymes. <i>Analytical Biochemistry</i> , 1979 , 92, 390-3	3.1	42
181	Molecular cloning and characterization of the thiolesterase glyoxalase II from <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 1997 , 322 (Pt 2), 449-54	3.8	41
180	Use of silent mutations in cDNA encoding human glutathione transferase M2-2 for optimized expression in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 1999 , 17, 105-12	2	41
179	Glutathione transferase isoenzymes from rat liver cytosol. <i>Methods in Enzymology</i> , 1985 , 113, 504-7	1.7	41
178	The steady-state kinetics of glyoxalase I from porcine erythrocytes. Evidence for a random-pathway mechanism involving one- and two-substrate branches. <i>FEBS Journal</i> , 1973 , 37, 270-81		40
177	Effect of chronic hypoxia on detoxication enzymes in rat liver. <i>Biochemical Pharmacology</i> , 1992 , 43, 242166		39
176	Cytosolic rat liver glutathione transferase 4-4. Primary structure of the protein reveals extensive differences between homologous glutathione transferases of classes alpha and mu. <i>FEBS Journal</i> , 1986 , 156, 343-50		39
175	Mechanism of the glutathione transferase-catalyzed conversion of antitumor 2-crotonyloxymethyl-2-cycloalkenones to GSH adducts. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15049-58	16.4	38
174	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. <i>Journal of Biological Chemistry</i> , 2001 , 276, 32177-83	5.4	38
173	The cyclopentenone product of lipid peroxidation, 15-A(2t)-isoprostane (8-isoprostaglandin A(2)), is efficiently conjugated with glutathione by human and rat glutathione transferase A4-4. <i>Chemical Research in Toxicology</i> , 2002 , 15, 1114-8	4	38

172	Chromosomal localization of human glutathione transferase genes of classes alpha, mu and pi. <i>Human Genetics</i> , 1989 , 82, 338-42	6.3	38
171	The amount and nature of glutathione transferases in rat liver microsomes determined by immunochemical methods. <i>FEBS Letters</i> , 1983 , 160, 264-8	3.8	38
170	Glutathione transferase-M2-2 secreted from glioblastoma cell protects SH-SY5Y cells from aminochrome neurotoxicity. <i>Neurotoxicity Research</i> , 2015 , 27, 217-28	4.3	37
169	Detoxication of carcinogenic fjord-region diol epoxides of polycyclic aromatic hydrocarbons by glutathione transferase P1-1 variants and glutathione. <i>FEBS Letters</i> , 1998 , 438, 206-10	3.8	37
168	Structural basis for featuring of steroid isomerase activity in alpha class glutathione transferases. <i>Journal of Molecular Biology</i> , 2010 , 397, 332-40	6.5	36
167	Examination of the transcription factor NtcA-binding motif by in vitro selection of DNA sequences from a random library. <i>Journal of Molecular Biology</i> , 2000 , 301, 783-93	6.5	36
166	Partial purification and characterization of glyoxalase I from porcine erythrocytes. <i>FEBS Journal</i> , 1972 , 29, 276-81		36
165	Enzymatic detoxication, conformational selection, and the role of molten globule active sites. <i>Journal of Biological Chemistry</i> , 2013 , 288, 18599-611	5.4	35
164	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. <i>Biochemical Pharmacology</i> , 2002 , 63, 191-7	6	35
163	Organ distribution of glutathione transferase isoenzymes in the human fetus: differences between liver and extrahepatic tissues. <i>Biochemical Pharmacology</i> , 1986 , 35, 1616-9	6	35
162	Probing the active site of glyoxalase I from human erythrocytes by use of the strong reversible inhibitor S-p-bromobenzylglutathione and metal substitutions. <i>Biochemical Journal</i> , 1981 , 197, 67-75	3.8	35
161	Catalytic and molecular properties of glyoxalase I. <i>Biochemical Society Transactions</i> , 1993 , 21, 515-7	5.1	34
160	A steady-state kinetic model of butyrylcholinesterase from horse plasma. <i>Biochemical Journal</i> , 1974 , 141, 825-34	3.8	34
159	FDA-approved drugs and other compounds tested as inhibitors of human glutathione transferase P1-1. <i>Chemico-Biological Interactions</i> , 2013 , 205, 53-62	5	33
158	The conserved N-capping box in the hydrophobic core of glutathione S-transferase P1-1 is essential for refolding. Identification of a buried and conserved hydrogen bond important for protein stability. <i>Journal of Biological Chemistry</i> , 1997 , 272, 25518-23	5.4	33
157	Benzoic acid derivatives induce recovery of catalytic activity in the partially inactive Met208Lys mutant of human glutathione transferase A1-1. <i>Journal of Molecular Biology</i> , 1999 , 288, 787-800	6.5	33
156	Purification of glutathione reductase from erythrocytes by the use of affinity chromatography on 2S 5SADP-Sepharose 4-B. <i>FEBS Letters</i> , 1976 , 66, 221-4	3.8	33
155	Structural basis of the suppressed catalytic activity of wild-type human glutathione transferase T1-1 compared to its W234R mutant. <i>Journal of Molecular Biology</i> , 2006 , 355, 96-105	6.5	32

154	A conserved "hydrophobic staple motif" plays a crucial role in the refolding of human glutathione transferase P1-1. <i>Journal of Biological Chemistry</i> , 2000 , 275, 10421-8	5.4	32
153	Differences in the occurrence of glutathione transferase isoenzymes in rat lung and liver. <i>Biochemical and Biophysical Research Communications</i> , 1985 , 127, 80-6	3.4	30
152	Mutagenesis of residue 157 in the active site of human glyoxalase I. <i>Biochemical Journal</i> , 1997 , 328 (Pt 1), 231-5	3.8	29
151	Synthesis and characterization of 6-chloroacetyl-2-dimethylaminonaphthalene as a fluorogenic substrate and a mechanistic probe for glutathione transferases. <i>Analytical Biochemistry</i> , 2002 , 311, 171-8	3.1	29
150	An ensemble of theta class glutathione transferases with novel catalytic properties generated by stochastic recombination of fragments of two mammalian enzymes. <i>Journal of Molecular Biology</i> , 2002 , 318, 59-70	6.5	29
149	An essential histidine residue in the catalytic mechanism of mammalian glutathione reductase. <i>Biochemical and Biophysical Research Communications</i> , 1978 , 83, 558-64	3.4	29
148	Purification of glutathione reductase from porcine erythrocytes by the use of affinity chromatography on 2S 5SADP-Sepharose 4B and crystallization of the enzyme. <i>Analytical Biochemistry</i> , 1979 , 98, 335-40	3.1	29
147	Five decades with glutathione and the GSTome. <i>Journal of Biological Chemistry</i> , 2012 , 287, 6072-83	5.4	28
146	Isoenzyme-specific quantitative immunoassays for cytosolic glutathione transferases and measurement of the enzymes in blood plasma from cancer patients and in tumor cell lines. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1994 , 1225, 223-30	6.9	28
145	Catalytic activities of human alpha class glutathione transferases toward carcinogenic dibenzo[a,l]pyrene diol epoxides. <i>Chemical Research in Toxicology</i> , 2002 , 15, 825-31	4	27
144	Disorder-to-order transition of the active site of human class Pi glutathione transferase, GST P1-1. <i>Biochemistry</i> , 2001 , 40, 11660-9	3.2	27
143	Analysis of the Role of the Active Site Tyrosine in Human Glutathione Transferase A1-1 by Unnatural Amino Acid Mutagenesis. <i>Journal of the American Chemical Society</i> , 1998 , 120, 451-452	16.4	27
142	The high activity of rat glutathione transferase 8-8 with alkene substrates is dependent on a glycine residue in the active site. <i>Journal of Biological Chemistry</i> , 1995 , 270, 29705-9	5.4	27
141	Glutathione conjugation of trans-3,4-dihydroxy 1,2-epoxy 1,2,3,4-tetrahydrobenzo[c]phenanthrene isomers by human glutathione transferases. <i>Carcinogenesis</i> , 1992 , 13, 1549-55	4.6	27
140	Inhibition of glutathione reductase by interaction of 2, 4, 6-trinitrobenzenesulfonate with the active-site dithiol. <i>FEBS Letters</i> , 1979 , 98, 263-6	3.8	27
139	The reduction of the L-cysteine-glutathione mixed disulfide in rat liver. involvement of an enzyme catalyzing thiol-disulfide interchange. <i>FEBS Letters</i> , 1970 , 7, 26-28	3.8	27
138	Mapping of amino acid substitutions conferring herbicide resistance in wheat glutathione transferase. <i>ACS Synthetic Biology</i> , 2015 , 4, 221-7	5.7	26
137	Alternative mutations of a positively selected residue elicit gain or loss of functionalities in enzyme evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 4876-81	11.5	26

136	Directed enzyme evolution guided by multidimensional analysis of substrate-activity space. <i>Protein Engineering, Design and Selection</i> , 2004 , 17, 49-55	1.9	25
135	Incorporation of a single His residue by rational design enables thiol-ester hydrolysis by human glutathione transferase A1-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 13163-7	11.5	25
134	Crystallization of GST2, a human class alpha glutathione transferase. <i>Journal of Molecular Biology</i> , 1989 , 208, 369-70	6.5	25
133	Enzymatic catalysis of the reversible sulfitolysis of glutathione disulfide and the biological reduction of thiosulfate esters. <i>Archives of Biochemistry and Biophysics</i> , 1974 , 163, 283-9	4.1	25
132	Nonlinear regression methods in design of experiments and mathematical modelling. Applications to the analysis of the steady-state kinetics of glutathione reductase. <i>BioSystems</i> , 1975 , 7, 101-19	1.9	25
131	Kinetic properties of missense mutations in patients with glutathione synthetase deficiency. <i>Biochemical Journal</i> , 2000 , 349, 275-279	3.8	24
130	Cysteine residues are not essential for the catalytic activity of human class Mu glutathione transferase M1a-1a. <i>FEBS Letters</i> , 1991 , 293, 156-9	3.8	24
129	Relaxed thiol substrate specificity of glutathione transferase effected by a non-substrate glutathione derivative. <i>FEBS Letters</i> , 1988 , 231, 155-8	3.8	24
128	Mechanism of glutathione transferase P1-1-catalyzed activation of the prodrug canfosfamide (TLK286, TELCYTA). <i>Biochemistry</i> , 2013 , 52, 8069-78	3.2	23
127	Inhibition of yeast S-lactylglutathione lyase (glyoxalase I) by sulfhydryl reagents. <i>Archives of Biochemistry and Biophysics</i> , 1970 , 137, 128-32	4.1	23
126	Structural determinants in domain II of human glutathione transferase M2-2 govern the characteristic activities with aminochrome, 2-cyano-1,3-dimethyl-1-nitrosoguanidine, and 1,2-dichloro-4-nitrobenzene. <i>Protein Science</i> , 1999 , 8, 2742-50	6.3	22
125	Functionally diverging molecular quasi-species evolve by crossing two enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10866-70	11.5	22
124	Engineering of a metal coordinating site into human glutathione transferase M1-1 based on immobilized metal ion affinity chromatography of homologous rat enzymes. <i>Protein Engineering, Design and Selection</i> , 1994 , 7, 1115-9	1.9	22
123	On the nature of leukotriene C4 synthase in human platelets. <i>Archives of Biochemistry and Biophysics</i> , 1992 , 294, 70-4	4.1	22
122	Differences among allelic variants of human glutathione transferase A2-2 in the activation of azathioprine. <i>Chemico-Biological Interactions</i> , 2010 , 186, 110-7	5	21
121	Absence of a ping-pong pathway in the kinetic mechanism of glutathione S-transferase A from rat liver. Evidence based on quantitative comparison of the asymptotic properties of experimental data and alternative rat equations. <i>FEBS Letters</i> , 1975 , 56, 218-21	3.8	21
120	On the biosynthesis of 15-HETE and eoxin C4 by human airway epithelial cells. <i>Prostaglandins and Other Lipid Mediators</i> , 2015 , 121, 83-90	3.7	20
119	Structural determinants of glutathione transferases with azathioprine activity identified by DNA shuffling of alpha class members. <i>Journal of Molecular Biology</i> , 2008 , 375, 1365-79	6.5	20

118	Screening for recombinant glutathione transferases active with monochlorobimane. <i>Analytical Biochemistry</i> , 2002 , 309, 102-8	3.1	20
117	Contribution of glycine 146 to a conserved folding module affecting stability and refolding of human glutathione transferase p1-1. <i>Journal of Biological Chemistry</i> , 2003 , 278, 1291-302	5.4	20
116	Thioltransferase. <i>Methods in Enzymology</i> , 1981 , 77, 281-5	1.7	20
115	Targeting human glutathione transferase A3-3 attenuates progesterone production in human steroidogenic cells. <i>Biochemical Journal</i> , 2008 , 414, 103-9	3.8	19
114	Active site serine promotes stabilization of the reactive glutathione thiolate in rat glutathione transferase T2-2. Evidence against proposed sulfatase activity of the corresponding human enzyme. <i>Journal of Biological Chemistry</i> , 2000 , 275, 8618-24	5.4	19
113	Optimized heterologous expression of the polymorphic human glutathione transferase M1-1 based on silent mutations in the corresponding cDNA. <i>Protein Expression and Purification</i> , 1996 , 7, 367-72	2	19
112	Expression of a Drosophila glutathione transferase in Arabidopsis confers the ability to detoxify the environmental pollutant, and explosive, 2,4,6-trinitrotoluene. <i>New Phytologist</i> , 2017 , 214, 294-303	9.8	17
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