

# CITATION REPORT

List of articles citing

## Glutathione: a review on biotechnological production

DOI: 10.1007/s00253-004-1751-y

Applied Microbiology and Biotechnology, 2004, 66, 233-42.

**Source:** <https://exaly.com/paper-pdf/37032472/citation-report.pdf>

**Version:** 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
240	Effects on GSH synthesis in Chinese cabbage when the culturing solution is supplemented with ammonium sulfate or the constituent amino acids for glutathione. <b>2005</b> , 48, 404-410		1
239	Thioredoxin and its role in premature newborn biology. <b>2005</b> , 7, 1740-3		22
238	Identification of variant molecules of <i>Bacillus thermoproteolyticus</i> ferredoxin: crystal structure reveals bound coenzyme A and an unexpected [3Fe-4S] cluster associated with a canonical [4Fe-4S] ligand motif. <b>2005</b> , 44, 12402-10		10
237	The many faces of glutathione in bacteria. <b>2006</b> , 8, 753-62		310
236	Analysis of case-parent trios at a locus with a deletion allele: association of GSTM1 with autism. <b>2006</b> , 7, 8		50
235	Improved glutathione production by gene expression in <i>Escherichia coli</i> . <b>2006</b> , 43, 211-4		14
234	Maximizing production of glutathione by amino acid modulation and high-cell-density fed-batch culture of <i>Saccharomyces cerevisiae</i> . <b>2006</b> , 41, 2424-2428		30
233	Influence of different fermentation parameters on glutathione volumetric productivity by <i>Saccharomyces cerevisiae</i> . <b>2006</b> , 41, 1501-1505		17
232	Electrochemical study of S-nitrosoglutathione and nitric oxide by carbon fibre NO sensor and cyclic voltammetry: possible way of monitoring of nitric oxide. <b>2006</b> , 51, 5087-5094		30
231	Marine yeasts and their applications in mariculture. <b>2006</b> , 5, 251-256		28
230	From Gene to Product: The Advantage of Integrative Biotechnology. 1-52		4
229	Thermostable ATP regeneration system using polyphosphate kinase from <i>Thermosynechococcus elongatus</i> BP-1 for D-amino acid dipeptide synthesis. <b>2007</b> , 103, 179-84		49
228	Amino Acid Biosynthesis ~ Pathways, Regulation and Metabolic Engineering. <b>2007</b> ,		40
227	Occurrence, Biosynthesis, and Biotechnological Production of Dipeptides. <b>2006</b> , 327-348		2
226	Optimization of the medium for glutathione production in <i>Saccharomyces cerevisiae</i> . <b>2007</b> , 42, 454-458		29
225	Influence of culture conditions on glutathione production by <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 77, 763-9	5.7	22
224	Plasma redox status is impaired in the portacaval shunted rat--the risk of the reduced antioxidant ability. <b>2008</b> , 7, 1		5

223	Enhancement of glutathione production by altering adenosine metabolism of Escherichia coli in a coupled ATP regeneration system with Saccharomyces cerevisiae. <b>2008</b> , 104, 345-52	14
222	Determination of thiolic compounds as mercury complexes by cold vapor atomic absorption spectrometry and its application to wines. <b>2008</b> , 74, 936-43	21
221	Real-time viable-cell mass monitoring in high-cell-density fed-batch glutathione fermentation by Saccharomyces cerevisiae T65 in industrial complex medium. <b>2008</b> , 105, 409-13	30
220	Protective effect of a fermented substance from Saccharomyces cerevisiae on liver injury in mice caused by acetaminophen. <b>2008</b> , 72, 2514-20	8
219	Novel pH control strategy for glutathione overproduction in batch cultivation of Candida utilis. <b>2009</b> , 8, 6337-6345	3
218	The protective effects of a fermented substance from Saccharomyces cerevisiae on carbon tetrachloride-induced liver damage in rats. <b>2009</b> , 28, 338-45	8
217	ATP in current biotechnology: regulation, applications and perspectives. <b>2009</b> , 27, 94-101	79
216	Augmented biosynthesis of cadmium sulfide nanoparticles by genetically engineered Escherichia coli. <b>2009</b> , 25, 1260-6	63
215	Enhancement of glutathione production with a tripeptidase-deficient recombinant Escherichia coli. <b>2009</b> , 36, 1447-52	9
214	Glutathione production by efficient ATP-regenerating Escherichia coli mutants. <b>2009</b> , 297, 217-24	21
213	Enhancement of glutathione production in a coupled system of adenosine deaminase-deficient recombinant Escherichia coli and Saccharomyces cerevisiae. <b>2009</b> , 44, 269-273	4
212	Efficient extraction of intracellular reduced glutathione from fermentation broth of Saccharomyces cerevisiae by ethanol. <i>Bioresource Technology</i> , <b>2009</b> , 100, 1011-4	11 19
211	Glutathione Production in Yeast. <b>2009</b> , 259-280	15
210	Yeast Biotechnology: Diversity and Applications. <b>2009</b> ,	33
209	Determination of total glutathione in yeasts by high-performance liquid chromatography with dansylation. <b>2010</b> , 65, 391-4	5
208	Effects of nitrogen source and carbon/nitrogen ratio on batch fermentation of glutathione by Candida utilis. <b>2010</b> , 27, 551-559	10
207	Glutathione accumulation in ethanol-stat fed-batch culture of Saccharomyces cerevisiae with a switch to cysteine feeding. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 87, 175-83	5-7 13
206	A novel strategy on the high-cell-density cultivation of Candida utilis for the enhanced production of glutathione. <b>2010</b> , 27, 1246-1251	8

205	Screening of <i>Candida utilis</i> and medium optimization for co-production of S-adenosylmethionine and glutathione. <b>2010</b> , 27, 1847-1853		8
204	Production of glutathione in extracellular form by <i>Saccharomyces cerevisiae</i> . <b>2010</b> , 45, 441-445		12
203	Effects of magnetic fields on biomass and glutathione production by the yeast <i>Saccharomyces cerevisiae</i> . <b>2010</b> , 45, 1362-1367		42
202	Use of <i>Escherichia coli</i> <i>add/ade</i> mutant and <i>Saccharomyces cerevisiae</i> WSH2 to construct a highly efficient coupled system for glutathione production. <b>2010</b> , 46, 82-86		3
201	Optimization of sodium dodecyl sulfate (SDS) addition coupled with adenosine triphosphate (ATP) regeneration for glutathione overproduction in high density cultivation of <i>Candida utilis</i> . <b>2010</b> , 46, 526-33		10
200	RQ feedback control for simultaneous improvement of GSH yield and GSH content in <i>Saccharomyces cerevisiae</i> T65. <b>2010</b> , 46, 598-602		21
199	Exploiting plants for glutathione (GSH) production: Uncoupling GSH synthesis from cellular controls results in unprecedented GSH accumulation. <b>2010</b> , 8, 807-20		65
198	Involvement of the calcium-sensing receptor in human taste perception. <b>2010</b> , 285, 1016-22		178
197	Glutathione protects <i>Lactobacillus sanfranciscensis</i> against freeze-thawing, freeze-drying, and cold treatment. <b>2010</b> , 76, 2989-96		51
196	Isolation of One <i>S. cerevisiae</i> BY-14 Mutant BL-23 with High-Yield Production of Glutathione by Ion Implantation. <b>2010</b> ,		
195	Ethanol production from xylose by a recombinant <i>Candida utilis</i> strain expressing protein-engineered xylose reductase and xylitol dehydrogenase. <b>2011</b> , 75, 1994-2000		20
194	An Improved Method to Determine Gamma-glutamylcysteine Content in Foodstuffs Using 4-(Aminosulfonyl)-7-fluoro-2,1,3-benzoxadiazole. <b>2011</b> , 17, 573-577		4
193	Identification and characterization of genes involved in glutathione production in yeast. <b>2011</b> , 112, 107-13		37
192	Metabolic changes underlying the higher accumulation of glutathione in <i>Saccharomyces cerevisiae</i> mutants. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 89, 1029-37	5-7	16
191	Efficient and direct glutathione production from raw starch using engineered <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 89, 1417-22	5-7	17
190	Enzymatic glutathione production using metabolically engineered <i>Saccharomyces cerevisiae</i> as a whole-cell biocatalyst. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 91, 1001-6	5-7	21
189	Optimization of glutathione production in batch and fed-batch cultures by the wild-type and recombinant strains of the methylotrophic yeast <i>Hansenula polymorpha</i> DL-1. <b>2011</b> , 11, 8		33
188	Production of glutathione using a bifunctional enzyme encoded by <i>gshF</i> from <i>Streptococcus thermophilus</i> expressed in <i>Escherichia coli</i> . <b>2011</b> , 154, 261-8		34

187	Process for obtaining copper-enriched cells of <i>Saccharomyces cerevisiae</i> . <b>2011</b> , 46, 1417-1422		3
186	A glutathione redox effect on photosynthetic membrane expression in <i>Rhodospirillum rubrum</i> . <b>2011</b> , 193, 1893-900		12
185	Study on Screening of Glutathione over-Production Strain and its Fermentation Conditions. <b>2011</b> , 396-398, 1657-1661		
184	A combination of flow cytometry and traditional screening using chemicals to isolate high glutathione-producing yeast mutants. <b>2012</b> , 76, 1085-90		8
183	Expression of bacterial GshF in <i>Pichia pastoris</i> for glutathione production. <b>2012</b> , 78, 5435-9		18
182	Novel method for screening <i>Saccharomyces cerevisiae</i> mutants with increased sulfur-containing compounds: color-based selection of <i>ade1</i> or <i>ade2</i> mutants. <b>2012</b> , 114, 615-8		1
181	Safety assessment of gamma-glutamylcysteine sodium salt. <b>2012</b> , 64, 17-25		12
180	Extracellular glutathione fermentation using engineered <i>Saccharomyces cerevisiae</i> expressing a novel glutathione exporter. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 96, 1021-7	5-7	22
179	Efficient preparation of selenium/glutathione-enriched <i>Candida utilis</i> and its biological effects on rats. <b>2012</b> , 150, 249-57		8
178	Genome and transcriptome analysis of the food-yeast <i>Candida utilis</i> . <i>PLoS ONE</i> , <b>2012</b> , 7, e37226	3-7	25
177	Glutathione production using magnetic fields generated by magnets. <b>2012</b> , 55, 921-926		12
176	YAP1 over-expression in <i>Saccharomyces cerevisiae</i> enhances glutathione accumulation at its biosynthesis and substrate availability levels. <b>2012</b> , 7, 566-8		16
175	An energy-saving glutathione production method from low-temperature cooked rice using amylase-expressing <i>Saccharomyces cerevisiae</i> . <b>2012</b> , 7, 686-9		4
174	Improvement of glutathione production by metabolic engineering the sulfate assimilation pathway of <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 94, 1313-9	5-7	31
173	Efficient production of L-lactic acid from xylose by a recombinant <i>Candida utilis</i> strain. <b>2012</b> , 113, 73-5		37
172	Enhanced co-production of S-adenosylmethionine and glutathione by an ATP-oriented amino acid addition strategy. <i>Bioresource Technology</i> , <b>2012</b> , 107, 19-24	11	35
171	Development of a glutathione production process from proteinaceous biomass resources using protease-displaying <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 1495-502	5-7	9
170	A new strategy for improved glutathione production from <i>Saccharomyces cerevisiae</i> : use of cysteine- and glycine-rich chicken feather protein hydrolysate as a new cheap substrate. <b>2013</b> , 93, 535-41		23

169	Potential for green microalgae to produce hydrogen, pharmaceuticals and other high value products in a combined process. <b>2013</b> , 33, 172-215		196
168	Enzymatic synthesis of glutathione using engineered <i>Saccharomyces cerevisiae</i> . <b>2013</b> , 35, 1259-64		3
167	Oxidized glutathione fermentation using <i>Saccharomyces cerevisiae</i> engineered for glutathione metabolism. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 7399-404	5.7	15
166	Metabolic engineering of <i>Candida utilis</i> for isopropanol production. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 6231-9	5.7	19
165	Post-fermentative production of glutathione by baker's yeast ( <i>S. cerevisiae</i> ) in compressed and dried forms. <b>2013</b> , 30, 219-26		9
164	Selenium-enriched <i>Candida utilis</i> : Efficient preparation with l-methionine and antioxidant capacity in rats. <b>2013</b> , 27, 7-11		14
163	Biotechnological Strategies for Controlling Wine Oxidation. <b>2013</b> , 5, 217-229		15
162	Genomic analysis reveals the biotechnological ability of <i>Enterococcus italicus</i> to produce glutathione. <b>2013</b> , 40, 489-94		5
161	Nystatin-enhanced glutathione production by <i>Saccharomyces cerevisiae</i> depends on $\gamma$ -glutamylcysteine synthase activity and K <sup>+</sup> . <b>2013</b> , 13, 156-162		2
160	Preparation of a $\gamma$ -glutamylcysteine-enriched yeast extract from a newly developed GSH2-deficient strain. <b>2013</b> , 115, 50-4		3
159	Improved co-production of S-adenosylmethionine and glutathione using citrate as an auxiliary energy substrate. <i>Bioresource Technology</i> , <b>2013</b> , 131, 28-32	11	28
158	Construction of a <i>Candida utilis</i> strain with ratio-optimized expression of xylose-metabolizing enzyme genes by cocktail multicopy integration method. <b>2013</b> , 115, 532-9		9
157	Role of glutathione in winemaking: a review. <b>2013</b> , 61, 269-77		132
156	Development of microbial cell factories for bio-refinery through synthetic bioengineering. <b>2013</b> , 163, 204-16		46
155	Assessment of glutathione levels in model solution and grape ferments supplemented with glutathione-enriched inactive dry yeast preparations using a novel UPLC-MS/MS method. <b>2013</b> , 30, 80-92		21
154	Metabolomic and transcriptomic analysis for rate-limiting metabolic steps in xylose utilization by recombinant <i>Candida utilis</i> . <b>2013</b> , 77, 1441-8		4
153	A cost effective fermentative production of glutathione by <i>Saccharomyces cerevisiae</i> with cane molasses and glycerol. <b>2013</b> , 56, 849-857		8
152	<i>Candida utilis</i> assimilates oligomeric sugars in rice straw hydrolysate via the Calcium-Capturing-by-Carbonation (CaCCO) process for glutathione- and cell-biomass production. <i>Bioresource Technology</i> , <b>2014</b> , 172, 413-417	11	3

151	Singly protonated dehydronorcantharidin silver coordination polymer induces apoptosis of lung cancer cells via reactive oxygen species-mediated mitochondrial pathway. <b>2014</b> , 86, 1-11		35
150	Predictive sulfur metabolism - a field in flux. <b>2014</b> , 5, 646		12
149	Glutathione-enriched baker's yeast: production, bioaccessibility and intestinal transport assays. <b>2014</b> , 116, 304-13		9
148	A novel application of pulsed electric field (PEF) processing for improving glutathione (GSH) antioxidant activity. <b>2014</b> , 161, 361-6		27
147	Oxidative stress protection and glutathione metabolism in response to hydrogen peroxide and menadione in riboflavinogenic fungus <i>Ashbya gossypii</i> . <b>2014</b> , 174, 2307-25		15
146	Investigating the Interaction of Ninhydrin with Amino Acids and Polypeptide. <b>2014</b> , 955-959, 395-398		
145	Evolved <i>Saccharomyces cerevisiae</i> wine strains with enhanced glutathione production obtained by an evolution-based strategy. <b>2014</b> , 14, 977-87		25
144	Surface display of a bifunctional glutathione synthetase on <i>Saccharomyces cerevisiae</i> for converting chicken feather hydrolysate into glutathione. <b>2014</b> , 56, 726-30		9
143	Genetic engineering of nonconventional yeasts for the production of valuable compounds. <b>2014</b> , 63-112		5
142	Three-pathway combination for glutathione biosynthesis in <i>Saccharomyces cerevisiae</i> . <b>2015</b> , 14, 139		21
141	Enhanced Heavy Metal Tolerance and Accumulation by Transgenic Sugar Beets Expressing <i>Streptococcus thermophilus</i> StGCS-GS in the Presence of Cd, Zn and Cu Alone or in Combination. <i>PLoS ONE</i> , <b>2015</b> , 10, e0128824	3.7	43
140	Enhanced incorporation yield of cysteine for glutathione overproduction by fed-batch fermentation of <i>Saccharomyces cerevisiae</i> . <b>2015</b> , 216, 131-9		18
139	Hepatoprotective effect of the fucoidan from the brown seaweed <i>Turbinaria tricostata</i> . <b>2015</b> , 27, 2123-2135		40
138	Engineering the robustness of <i>Saccharomyces cerevisiae</i> by introducing bifunctional glutathione synthase gene. <b>2015</b> , 42, 537-42		19
137	Discovery of kokumi peptide from yeast extract by LC-Q-TOF-MS/MS and sensomics approach. <b>2015</b> , 95, 3183-94		46
136	Improvement of oxidized glutathione fermentation by thiol redox metabolism engineering in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 9771-8	5.7	11
135	Determination of Whiteners in Cosmetics by Microdialysis and High-Performance Liquid Chromatography. <b>2015</b> , 48, 2159-2171		4
134	Enhanced glutathione production by evolutionary engineering of <i>Saccharomyces cerevisiae</i> strains. <b>2015</b> , 10, 1719-26		25

133	Heterologous gshF gene expression in various vector systems in Escherichia coli for enhanced glutathione production. <b>2015</b> , 214, 63-8		19
132	Proteomic proof that a probiotic elevates glutathione level in human serum. <b>2015</b> , 10,		1
131	Glutathione is involved in physiological response of Candida utilis to acid stress. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 10669-79	5-7	9
130	On-line specific growth rate control for improving reduced glutathione production in Saccharomyces cerevisiae. <b>2015</b> , 20, 887-893		12
129	Candida utilis and Cyberlindnera (Pichia) jadinii: yeast relatives with expanding applications. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 6981-90	5-7	19
128	Metal-assisted and microwave-accelerated evaporative crystallization: an approach to rapid crystallization of biomolecules. <b>2016</b> , 18, 5600-5610		4
127	Engineering and Evolution of Saccharomyces cerevisiae to Produce Biofuels and Chemicals. <b>2018</b> , 162, 175-215		10
126	Characterization of bifunctional L-glutathione synthetases from Actinobacillus pleuropneumoniae and Actinobacillus succinogenes for efficient glutathione biosynthesis. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 6279-6289	5-7	9
125	Metal Tolerance Strategy in Plants. <b>2016</b> , 19-32		3
124	Microbial biotechnology for the synthesis of (pro)vitamins, biopigments and antioxidants: challenges and opportunities. <b>2016</b> , 9, 564-7		25
123	Phytol has antibacterial property by inducing oxidative stress response in Pseudomonas aeruginosa. <b>2016</b> , 50, 1309-1318		35
122	Effects and mechanisms of pro-longevity induced by Lactobacillus gasseri SBT2055 in Caenorhabditis elegans. <b>2016</b> , 15, 227-36		67
121	Evaluation of cysteine ethyl ester as efficient inducer for glutathione overproduction in Saccharomyces spp. <b>2016</b> , 93-94, 122-131		7
120	Enzymatic Production of Glutathione by Bifunctional $\Gamma$ -Glutamylcysteine Synthetase/Glutathione Synthetase Coupled with In Vitro Acetate Kinase-Based ATP Generation. <b>2016</b> , 180, 1446-1455		8
119	Systematic manipulation of glutathione metabolism in Escherichia coli for improved glutathione production. <b>2016</b> , 15, 38		22
118	Genome shuffling of Saccharomyces cerevisiae for enhanced glutathione yield and relative gene expression analysis using fluorescent quantitation reverse transcription polymerase chain reaction. <b>2016</b> , 127, 188-192		18
117	New insights into the physiological state of Saccharomyces cerevisiae during ethanol acclimation for producing sparkling wines. <b>2016</b> , 54, 20-29		16
116	Elevated intracellular acetyl-CoA availability by acs2 overexpression and mls1 deletion combined with metK1 introduction enhanced SAM accumulation in Saccharomyces cerevisiae. <b>2016</b> , 107, 26-34		10



115	Glutathione production by recombinant Escherichia coli expressing bifunctional glutathione synthetase. <b>2016</b> , 43, 45-53		19
114	Nanofiltration concentration of extracellular glutathione produced by engineered Saccharomyces cerevisiae. <b>2016</b> , 121, 96-100		5
113	Studies on Biosynthetic Production of Antioxidant Glutathione Using Microbial Cultures. <b>2016</b> , 1-8		
112	Development of GRAS strains for nutraceutical production using systems and synthetic biology approaches: advances and prospects. <b>2017</b> , 37, 139-150		23
111	Stereoselective synthesis of modified cysteines. <b>2017</b> , 28, 215-245		7
110	Medium optimization based on yeast's elemental composition for glutathione production in Saccharomyces cerevisiae. <b>2017</b> , 123, 555-561		9
109	Genomics of lactic acid bacteria: Current status and potential applications. <b>2017</b> , 43, 393-404		48
108	Efficient co-production of S-adenosylmethionine and glutathione by Candida utilis: effect of dissolved oxygen on enzyme activity and energy supply. <b>2017</b> , 92, 2150-2158		8
107	Overexpression of the regulatory subunit of glutamate-cysteine ligase enhances monoclonal antibody production in CHO cells. <b>2017</b> , 114, 1825-1836		15
106	Microbial response to environmental stresses: from fundamental mechanisms to practical applications. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 3991-4008	5-7	54
105	A sustainable biogenic route to synthesize quantum dots with tunable fluorescence properties for live cell imaging. <b>2017</b> , 124, 130-137		16
104	Microbial production of glutathione. <b>2017</b> , 33, 106		30
103	Resveratrol induces membrane and DNA disruption via pro-oxidant activity against Salmonella typhimurium. <b>2017</b> , 489, 228-234		27
102	Glutathione production from mannan-based bioresource by mannanase/mannosidase expressing Saccharomyces cerevisiae. <i>Bioresource Technology</i> , <b>2017</b> , 245, 1400-1406	11	11
101	Impact of glutathione metabolism on zinc homeostasis in Saccharomyces cerevisiae. <b>2017</b> , 17,		6
100	Predisposing factors and outcome of uncommon yeast species-related fungaemia based on an exhaustive surveillance programme (2002-14). <b>2017</b> , 72, 1784-1793		33
99	Study on the glutathione metabolism of the filamentous fungus Aspergillus nidulans. <b>2017</b> , 64, 255-272		8
98	Fluorescence dynamics of the biosynthesized CdSe quantum dots in Candida utilis. <b>2017</b> , 7, 2048		10

97	Phenylpropanoid 2,3-dioxygenase involved in the cleavage of the ferulic acid side chain to form vanillin and glyoxylic acid in <i>Vanilla planifolia</i> . <b>2017</b> , 81, 1732-1740		6
96	Enrichment of cookies with glutathione by inactive yeast cells ( <i>Saccharomyces cerevisiae</i> ): Physicochemical and functional properties. <b>2017</b> , 78, 19-24		8
95	Enzymatic improvement of mitochondrial thiol oxidase Erv1 for oxidized glutathione fermentation by <i>Saccharomyces cerevisiae</i> . <b>2017</b> , 16, 44		2
94	Engineering redox homeostasis to develop efficient alcohol-producing microbial cell factories. <b>2017</b> , 16, 115		22
93	The mechanism of improved intracellular organic selenium and glutathione contents in selenium-enriched <i>Candida utilis</i> by acid stress. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 2131-2141	57	8
92	Optimization of Reduced Glutathione Production by a Isolate Using Plackett-Burman and Box-Behnken Designs. <b>2017</b> , 8, 772		9
91	Genetic variation and expression changes associated with molybdate resistance from a glutathione producing wine strain of <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , <b>2017</b> , 12, e0180814	3-7	7
90	Additions of Glutathione or Specific Glutathione-rich Dry Inactivated Yeast Preparation (DYP) to Sauvignon blanc Must: Effect on Wine Chemical and Sensory Composition. <b>2017</b> , 38,		9
89	Innovations in Technologies for Fermented Food and Beverage Industries. <b>2018</b> ,		9
88	Advances in Genetic Engineering for Higher Production and Quality Improvement of Food and Beverages. <b>2018</b> , 221-255		0
87	Impact of CHO Metabolism on Cell Growth and Protein Production: An Overview of Toxic and Inhibiting Metabolites and Nutrients. <b>2018</b> , 13, e1700499		73
86	Functional identification of glutamate cysteine ligase and glutathione synthetase in the marine yeast <i>Rhodospiridium diobovatum</i> . <b>2017</b> , 105, 4		6
85	Proteomic analysis and food-grade enzymes of <i>Moringa oleifera</i> Lam. a Lam. flower. <b>2018</b> , 115, 883-890		20
84	Gene of the transcriptional activator MET4 is involved in regulation of glutathione biosynthesis in the methylotrophic yeast <i>Ogataea (Hansenula) polymorpha</i> . <b>2018</b> , 18,		10
83	Synthetic Biology [Metabolic Engineering]. <b>2018</b> ,		1
82	Quantitative imaging of <i>Candida utilis</i> and its organelles by soft X-ray Nano-CT. <b>2018</b> , 270, 64-70		17
81	Enzymatic Production of Glutathione Coupling with an ATP Regeneration System Based on Polyphosphate Kinase. <b>2018</b> , 185, 385-395		12
80	Reactive oxygen species modulate itraconazole-induced apoptosis via mitochondrial disruption in <i>Candida albicans</i> . <b>2018</b> , 52, 39-50		27

79	Improved S-adenosylmethionine and glutathione biosynthesis by heterologous expression of an ATP6 gene in <i>Candida utilis</i> . <b>2018</b> , 58, 875-882		9
78	Functional analysis and heterologous expression of bifunctional glutathione synthetase from <i>Lactobacillus</i> . <b>2018</b> , 101, 6937-6945		4
77	Efficient production of glutathione with multi-pathway engineering in <i>Corynebacterium glutamicum</i> . <b>2019</b> , 46, 1685-1695		4
76	Glutathione Metabolism in Yeasts and Construction of the Advanced Producers of This Tripeptide. <b>2019</b> , 153-196		1
75	Metabolic engineering of <i>Lactococcus lactis</i> for high level accumulation of glutathione and S-adenosyl-L-methionine. <b>2019</b> , 35, 185		9
74	Transcriptome analysis reveals the mechanism underlying improved glutathione biosynthesis and secretion in <i>Candida utilis</i> during selenium enrichment. <b>2019</b> , 304, 89-96		10
73	Metabolic diversity conveyed by the process leading to glutathione accumulation in inactivated dry yeast: A synthetic media study. <b>2019</b> , 123, 762-770		6
72	<i>Pichia pastoris</i> as a Versatile Cell Factory for the Production of Industrial Enzymes and Chemicals: Current Status and Future Perspectives. <b>2019</b> , 14, e1800694		25
71	Substrate Metabolism-Driven Assembly of High-Quality CdS Se Quantum Dots in <i>Escherichia coli</i> : Molecular Mechanisms and Bioimaging Application. <b>2019</b> , 13, 5841-5851		27
70	Cysteine content obtained from the variation of temperature and acidity on soybean extraction. <b>2019</b> , 1321, 032038		
69	Overexpression of LmgshF from <i>Listeria monocytogenes</i> in Indica Rice Confers Salt Stress Tolerance. <b>2019</b> , 66, 911-921		1
68	Disruption of <i>por1</i> gene in <i>Candida utilis</i> improves co-production of S-adenosylmethionine and glutathione. <b>2019</b> , 290, 16-23		6
67	Sustainable production of glutathione from lignocellulose-derived sugars using engineered <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 1243-1254	5-7	6
66	Effect of apigenin isolated from <i>Aster yomena</i> against <i>Candida albicans</i> : apigenin-triggered apoptotic pathway regulated by mitochondrial calcium signaling. <b>2019</b> , 231, 19-28		20
65	Efficient glutathione production in metabolically engineered <i>Escherichia coli</i> strains using constitutive promoters. <b>2019</b> , 289, 39-45		7
64	Microalgae metabolites: A rich source for food and medicine. <b>2019</b> , 26, 709-722		292
63	Yeast a potential bio-agent: future for plant growth and postharvest disease management for sustainable agriculture. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 1497-1510	5-7	30
62	Highly Efficient Synthesis of Glutathione via a Genetic Engineering Enzymatic Method Coupled with Yeast ATP Generation. <b>2020</b> , 10, 33		2

61	A stepwise control strategy for glutathione synthesis in <i>Saccharomyces cerevisiae</i> based on oxidative stress and energy metabolism. <b>2020</b> , 36, 117	4
60	Multivariate analysis reveals effect of glutathione-enriched inactive dry yeast on amino acids and volatile components of kiwi wine. <b>2020</b> , 329, 127086	9
59	Effect of glutathione-enriched inactive dry yeast on color, phenolic compounds, and antioxidant activity of kiwi wine. <b>2020</b> , 44, e14347	4
58	Role of <i>Pseudomonas aeruginosa</i> Glutathione Biosynthesis in Lung and Soft Tissue Infection. <b>2020</b> , 88,	3
57	Role of redox system in enhancement of phytoremediation capacity in plants. <b>2021</b> , 165-193	
56	Phytoremediation using genetically engineered plants to remove metals: a review. <b>2021</b> , 19, 669-698	27
55	Extraction and concentration of glutathione from yeast by membranes.	2
54	Characterisitcs of <i>Saccharomyces boulardii</i> for reducing ammonia emission from livestock manure. <b>2021</b> , 64,	
53	Biological and chemical characterization of new isolated halophilic microorganisms from saltern ponds of Trapani, Sicily. <b>2021</b> , 54, 102192	3
52	Preparation of glutathione loaded nanoemulsions and testing of hepatoprotective activity on THLE-2 cells. <b>2021</b> , 45, 436-451	1
51	Investigating the glutathione accumulation by non-conventional wine yeasts in optimized growth conditions and multi-starter fermentations. <i>LWT - Food Science and Technology</i> , <b>2021</b> , 142, 110990	5-4 3
50	Adaptive laboratory evolution principles and applications in industrial biotechnology. <b>2021</b> , 54, 107795	12
49	Emyrin-induced apoptosis in <i>Candida albicans</i> triggered by calcium. <b>2021</b> , 125, 630-636	0
48	Modulation of the peroxidase-like activity of iron oxide nanoparticles by surface functionalization with polysaccharides and its application for the detection of glutathione. <b>2021</b> , 267, 118164	5
47	Fucoidan Modulated Oxidative Stress and Caspase-3 mRNA Expression Induced by Sulfoxaflor in the Brain of Mice. <b>2021</b> , 39, 1908-1919	0
46	Bioprocess optimization of glutathione production by <i>Saccharomyces boulardii</i> : biochemical characterization of glutathione peroxidase. <b>2021</b> , 203, 6183-6196	3
45	Use of glutathione in the winemaking of white grape varieties. <b>2022</b> , 29-38	
44	Expanding the Knowledge on the Skillful Yeast. <b>2021</b> , 7,	3

43	Production of transglutaminase in glutathione-producing recombinant <i>Saccharomyces cerevisiae</i> . <b>2021</b> , 11, 13		1
42	Wine Yeasts and Consumer Health. <b>2019</b> , 343-373		2
41	Recent progress in chemosensors based on pyrazole derivatives.. <b>2020</b> , 10, 19693-19712		46
40	A novel mechanism of fluconazole: fungicidal activity through dose-dependent apoptotic responses in <i>Candida albicans</i> . <i>Microbiology (United Kingdom)</i> , <b>2018</b> , 164, 194-204	2.9	23
39	Improved Antioxidant Capacity and Immune Function of Broiler Chickens Fed with Selenium-enriched <i>Candida utilis</i> . <i>Brazilian Journal of Poultry Science</i> , <b>2020</b> , 22,	1.3	1
38	Yeasts as a Glutathione Producer. <i>Food Processing: Techniques and Technology</i> , <b>2020</b> , 50, 140-148	0.4	2
37	Extraction of Proteins and Other Intracellular Bioactive Compounds From Baker's Yeasts by Pulsed Electric Field Treatment. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 552335	5.8	7
36	, a Host to Investigate the Probiotic Properties of Beneficial Microorganisms. <i>Frontiers in Nutrition</i> , <b>2020</b> , 7, 135	6.2	15
35	Enhancement of the Glutathione Production by Mutated Yeast Strains and its Potential as Food Supplement and Preservative. <i>Research Journal of Microbiology</i> , <b>2017</b> , 13, 28-36	0.1	3
34	High-glutathione producing yeasts obtained by genetic improvement strategies: a focus on adaptive evolution approaches for novel wine strains. <i>AIMS Microbiology</i> , <b>2017</b> , 3, 155-170	4.5	17
33	Glutathione Production by <i>Yarrowia lipolytica</i> Showing Both Methyglyoxal Resistance and a High Activity of Glutathione Synthetase. <i>Advances in Microbiology</i> , <b>2012</b> , 02, 171-180	0.6	3
32	Fluorescent Carbon Dots for Sensing Metal Ions and Small Molecules. <i>Chinese Journal of Analytical Chemistry</i> , <b>2021</b> , 50, 103-103	1.6	4
31	Transcriptome analysis reveals antioxidant defense mechanisms in the red swamp crayfish <i>Procambarus clarkia</i> after exposure to chromium. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 227, 112911	7	1
30	Influence of Cultural Conditions on Glutathione Peroxidase Synthesis in <i>Candida albicans</i> . <i>Asian Journal of Biochemistry</i> , <b>2009</b> , 4, 99-105	0.1	1
29	From Gene to Product: the Advantage of Integrative Biotechnology. 1		
28	Production of Glutathione by the Yeast Mutant <i>Saccharomyces cerevisiae</i> Sa59. <i>Korean Journal of Food Science and Technology</i> , <b>2013</b> , 45, 801-804		
27	Two school children showed dyspnea after eating school meals including <i>Candida utilis</i> (alias: torula yeast), proved the blood <i>Candida utilis</i> IgE antibody, which is added as a flavor ingredient. <i>Nihon Shoni Arerugi Gakkaishi the Japanese Journal of Pediatric Allergy and Clinical Immunology</i> , <b>2014</b> , 28, 777-786	0.1	
26	Understanding genetic changes underlying the molybdate resistance and the glutathione production in <i>Saccharomyces cerevisiae</i> wine strains using an evolution-based strategy.		

25	Effects of Dietary Glutathione-enhanced Yeast Culture on Growth Performance, Blood Characteristics and Meat Storage Stability in Broiler Chicks. <i>Jawon Gwahak Yeongu</i> , <b>2019</b> , 1, 39-49	0	
24	Fonksiyonel Gıda İn Salkın Takviye: Mikroalgler. <i>Sinop Üniversitesi Fen Bilimleri Dergisi</i> ,	0.1	
23	Metaproteomic investigation of functional insight into special defined microbial starter on production of fermented rice with melanogenesis inhibition activity. <i>PLoS ONE</i> , <b>2020</b> , 15, e0241819	3.7	1
22	Glutathione alleviated peripheral neuropathy in oxaliplatin-treated mice by removing aluminum from dorsal root ganglia. <i>American Journal of Translational Research (discontinued)</i> , <b>2017</b> , 9, 926-939	3	13
21	Isolation of indigenous Glutathione producing strains. <i>Iranian Journal of Pathology</i> , <b>2016</b> , 11, 354-362	1.2	5
20	Gut microbes: Role in production of nutraceuticals. <b>2022</b> , 273-299		
19	Seawater-based biorefineries: A strategy to reduce the water footprint in the conversion of lignocellulosic biomass. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126325	11	2
18	Glutathione production by <i>Saccharomyces cerevisiae</i> : current state and perspectives.. <i>Applied Microbiology and Biotechnology</i> , <b>2022</b> , 106, 1879-1894	5.7	2
17	Image_1.pdf. <b>2020</b> ,		
16	Image_2.pdf. <b>2020</b> ,		
15	Exogenous Glutamate and Methionine Relieve Photodynamic Inactivation-Induced Oxidative Stress in <i>Pseudomonas Reinekei</i> . <i>SSRN Electronic Journal</i> ,	1	
14	Nutraceutical Compounds from Marine Microalgae. <b>2022</b> , 245-255		
13	Influence of growth medium and yeast species on the formation of $\gamma$ -glutamyl peptides. <i>LWT - Food Science and Technology</i> , <b>2022</b> , 165, 113716	5.4	
12	Metabolic engineering of the l-serine biosynthetic pathway improves glutathione production in <i>Saccharomyces cerevisiae</i> . <b>2022</b> , 21,		1
11	Overview on Advanced Microalgae-Based Sustainable Biofuel Generation and Its Life Cycle Assessment. <b>2022</b> , 53-71		0
10	Genetically engineered plants for phytoremediation of heavy metals. <b>2022</b> , 223-239		0
9	Accumulation and Enrichment of Trace Elements by Yeast Cells and Their Applications: A Critical Review. <b>2022</b> , 10, 1746		0
8	Magnetic fields as inducer of glutathione and peroxidase production by <i>Saccharomyces cerevisiae</i> .		0

- 7 Efficient production of glutathione in *Saccharomyces cerevisiae* via a synthetic isozyme system. 2200398 ○
- 6 New Insights on Glutathione's Supramolecular Arrangement and Its In Silico Analysis as an Angiotensin-Converting Enzyme Inhibitor. **2022**, 27, 7958 1
- 5 Varietal Aromas of Sauvignon Blanc: Impact of Oxidation and Antioxidants Used in Winemaking. **2022**, 8, 686 ○
- 4 Probiotics and Algal Functional Food. **2022**, 341-361 ○
- 3 Enhancing the Thermal Stability of Glutathione Bifunctional Synthase by B-Factor Strategy and Un/Folding Free Energy Calculation. **2022**, 12, 1649 ○
- 2 Transcriptome and Metabolome Reveal the Molecular Mechanism of Barley Genotypes Underlying the Response to Low Nitrogen and Resupply. **2023**, 24, 4706 ○
- 1 Glutathione for Food and Health Applications with Emphasis on Extraction, Identification, and Quantification Methods: A Review. **2023**, 13, 465 ○