

# Shingo Izawa

## List of Publications by Citations

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94  
papers

2,879  
citations

26  
h-index

50  
g-index

95  
ext. papers

3,169  
ext. citations

4.1  
avg, IF

4.97  
L-index

#	Paper	IF	Citations
94	Regulation of the yeast Yap1p nuclear export signal is mediated by redox signal-induced reversible disulfide bond formation. <i>Molecular and Cellular Biology</i> , <b>2001</b> , 21, 6139-50	4.8	203
93	Genetic analysis of glutathione peroxidase in oxidative stress response of <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 27002-9	5.4	202
92	Importance of catalase in the adaptive response to hydrogen peroxide: analysis of acatalasaemic <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , <b>1996</b> , 320 ( Pt 1), 61-7	3.8	183
91	Oxidative stress response in yeast: effect of glutathione on adaptation to hydrogen peroxide stress in <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , <b>1995</b> , 368, 73-6	3.8	178
90	Thioredoxin deficiency causes the constitutive activation of Yap1, an AP-1-like transcription factor in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 28459-65	5.4	122
89	The Yap1p-dependent induction of glutathione synthesis in heat shock response of <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 15535-40	5.4	103
88	Importance of glucose-6-phosphate dehydrogenase in the adaptive response to hydrogen peroxide in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , <b>1998</b> , 330 ( Pt 2), 811-7	3.8	100
87	Methylglyoxal, a metabolite derived from glycolysis, functions as a signal initiator of the high osmolarity glycerol-mitogen-activated protein kinase cascade and calcineurin/Crz1-mediated pathway in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 253-60	5.4	89
86	GPX2, encoding a phospholipid hydroperoxide glutathione peroxidase homologue, codes for an atypical 2-Cys peroxiredoxin in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 42078-87	5.4	81
85	Green tea polyphenols function as prooxidants to activate oxidative-stress-responsive transcription factors in yeasts. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 572-80	4.8	73
84	Activity of the Yap1 transcription factor in <i>Saccharomyces cerevisiae</i> is modulated by methylglyoxal, a metabolite derived from glycolysis. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 8753-64	4.8	73
83	Intracellular glycerol influences resistance to freeze stress in <i>Saccharomyces cerevisiae</i> : analysis of a quadruple mutant in glycerol dehydrogenase genes and glycerol-enriched cells. <i>Applied Microbiology and Biotechnology</i> , <b>2004</b> , 66, 108-14	5.7	72
82	Vanillin inhibits translation and induces messenger ribonucleoprotein (mRNP) granule formation in <i>Saccharomyces cerevisiae</i> : application and validation of high-content, image-based profiling. <i>PLoS ONE</i> , <b>2013</b> , 8, e61748	3.7	60
81	The Zrc1 is involved in zinc transport system between vacuole and cytosol in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2001</b> , 282, 79-83	3.4	56
80	Roles of Esterase and Alcohol Acetyltransferase on Production of Isoamyl Acetate in <i>Hansenula mrakii</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>1997</b> , 45, 644-649	5.7	52
79	Biomass conversion inhibitors furfural and 5-hydroxymethylfurfural induce formation of messenger RNP granules and attenuate translation activity in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 1661-7	4.8	51
78	Severe ethanol stress induces assembly of stress granules in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , <b>2011</b> , 28, 339-47	3.4	50

77	Stress response in yeast mRNA export factor: reversible changes in Rat8p localization are caused by ethanol stress but not heat shock. <i>Journal of Cell Science</i> , <b>2004</b> , 117, 4189-97	5.3	46
76	Vanillin causes the activation of Yap1 and mitochondrial fragmentation in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2014</b> , 117, 33-8	3.3	38
75	Molecular identification of glutathione synthetase (GSH2) gene from <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>1998</b> , 1395, 315-20		36
74	A screening system for antioxidants using thioredoxin-deficient yeast: discovery of thermostable antioxidant activity from <i>Agaricus blazei</i> Murill. <i>Applied Microbiology and Biotechnology</i> , <b>2004</b> , 64, 537-42	5.7	36
73	Regulation of the yeast phospholipid hydroperoxide glutathione peroxidase GPX2 by oxidative stress is mediated by Yap1 and Skn7. <i>FEBS Letters</i> , <b>2004</b> , 565, 148-54	3.8	35
72	Methylglyoxal as a signal initiator for activation of the stress-activated protein kinase cascade in the fission yeast <i>Schizosaccharomyces pombe</i> . <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 9086-92	5.4	33
71	Expression of ZRC1 coding for suppressor of zinc toxicity is induced by zinc-starvation stress in Zap1-dependent fashion in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 276, 879-84	3.4	30
70	Heat shock and ethanol stress provoke distinctly different responses in 3Sprocessing and nuclear export of HSP mRNA in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , <b>2008</b> , 414, 111-9	3.8	27
69	Diagnosis of cell death induced by methylglyoxal, a metabolite derived from glycolysis, in <i>Saccharomyces cerevisiae</i> . <i>FEMS Microbiology Letters</i> , <b>2005</b> , 243, 87-92	2.9	27
68	Gle2p is essential to induce adaptation of the export of bulk poly(A) <sup>+</sup> mRNA to heat shock in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 35469-78	5.4	25
67	Deficiency in the glycerol channel Fps1p confers increased freeze tolerance to yeast cells: application of the fps1delta mutant to frozen dough technology. <i>Applied Microbiology and Biotechnology</i> , <b>2004</b> , 66, 303-5	5.7	25
66	Cooperative regulation of DOG2, encoding 2-deoxyglucose-6-phosphate phosphatase, by Snf1 kinase and the high-osmolarity glycerol-mitogen-activated protein kinase cascade in stress responses of <i>Saccharomyces cerevisiae</i> . <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 5121-6	3.5	25
65	Role of glutathione in heat-shock-induced cell death of <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , <b>2000</b> , 352, 71-78	3.8	25
64	Adaptive response in stress granule formation and bulk translational repression upon a combined stress of mild heat shock and mild ethanol stress in yeast. <i>Genes To Cells</i> , <b>2013</b> , 18, 974-84	2.3	24
63	Formation of cytoplasmic P-bodies in sake yeast during Japanese sake brewing and wine making. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2007</b> , 71, 2800-7	2.1	24
62	Importance of glucose-6-phosphate dehydrogenase (G6PDH) for vanillin tolerance in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2014</b> , 118, 263-9	3.3	23
61	The ADH7 Promoter of <i>Saccharomyces cerevisiae</i> is Vanillin-Inducible and Enables mRNA Translation Under Severe Vanillin Stress. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 1390	5.7	23
60	Role of glutathione in heat-shock-induced cell death of <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , <b>2000</b> , 352, 71	3.8	23

59	Acidic stress induces the formation of P-bodies, but not stress granules, with mild attenuation of bulk translation in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , <b>2012</b> , 446, 225-33	3.8	22
58	Reduction of glucose uptake through inhibition of hexose transporters and enhancement of their endocytosis by methylglyoxal in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 701-711	5.4	22
57	Cold atmospheric pressure plasma causes protein denaturation and endoplasmic reticulum stress in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 2279-2288	5.7	21
56	Vacuolar morphology of <i>Saccharomyces cerevisiae</i> during the process of wine making and Japanese sake brewing. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 88, 277-82	5.7	21
55	Acetic Acid Causes Endoplasmic Reticulum Stress and Induces the Unfolded Protein Response in. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1192	5.7	20
54	Improvement of tolerance to freeze-thaw stress of baker's yeast by cultivation with soy peptides. <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 75, 533-7	5.7	20
53	Plasma membrane proteins Yro2 and Mrh1 are required for acetic acid tolerance in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 2805-14	5.7	19
52	Identification of thermostable glyoxalase I in the fission yeast <i>Schizosaccharomyces pombe</i> . <i>Archives of Microbiology</i> , <b>2004</b> , 181, 371-7	3	18
51	Distinct regulatory mechanism of yeast GPX2 encoding phospholipid hydroperoxide glutathione peroxidase by oxidative stress and a calcineurin/Crz1-mediated Ca <sup>2+</sup> signaling pathway. <i>FEBS Letters</i> , <b>2004</b> , 569, 301-6	3.8	18
50	Fluorescence microscopic analysis of antifungal effects of cold atmospheric pressure plasma in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 9295-9304	5.7	17
49	Calcineurin/Crz1 destabilizes Msn2 and Msn4 in the nucleus in response to Ca(2+) in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , <b>2010</b> , 427, 275-87	3.8	17
48	Msn2p/Msn4p-activation is essential for the recovery from freezing stress in yeast. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 352, 750-5	3.4	17
47	Enrichment of yeast thioredoxin by green tea extract through activation of Yap1 transcription factor in <i>Saccharomyces cerevisiae</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2005</b> , 53, 332-7	5.7	17
46	Oxidative stress response in yeast: glutathione peroxidase of <i>Hansenula mrakii</i> is bound to the membrane of both mitochondria and cytoplasm. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1995</b> , 1245, 325-30	4	17
45	Glutathione peroxidase 2 in <i>Saccharomyces cerevisiae</i> is distributed in mitochondria and involved in sporulation. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 411, 580-5	3.4	16
44	Characterization of the export of bulk poly(A) <sup>+</sup> mRNA in <i>Saccharomyces cerevisiae</i> during the wine-making process. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 2179-82	4.8	16
43	Modification of yeast characteristics by soy peptides: cultivation with soy peptides represses the formation of lipid bodies. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 89, 1971-7	5.7	15
42	Prioritized Expression of BDH2 under Bulk Translational Repression and Its Contribution to Tolerance to Severe Vanillin Stress in <i>Saccharomyces cerevisiae</i> . <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1059	5.7	15

41	Ferrous chloride and ferrous sulfate improve the fungicidal efficacy of cold atmospheric argon plasma on melanized <i>Aureobasidium pullulans</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2019</b> , 128, 28-32 <sup>3-3</sup>		14
40	Enhancement of protein production via the strong DIT1 terminator and two RNA-binding proteins in <i>Saccharomyces cerevisiae</i> . <i>Scientific Reports</i> , <b>2016</b> , 6, 36997	4.9	14
39	Regulatory mechanism for expression of GPX1 in response to glucose starvation and Ca in <i>Saccharomyces cerevisiae</i> : involvement of Snf1 and Ras/cAMP pathway in Ca signaling. <i>Genes To Cells</i> , <b>2010</b> , 15, 59-75	2.3	14
38	Molecular cloning and nucleotide sequence of purine nucleoside phosphorylase and uridine phosphorylase genes from <i>Klebsiella</i> sp. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>1995</b> , 59, 1987-90	2.1	13
37	Prioritized Expression of BTN2 of <i>Saccharomyces cerevisiae</i> under Pronounced Translation Repression Induced by Severe Ethanol Stress. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1319	5.7	13
36	The yeast ADH7 promoter enables gene expression under pronounced translation repression caused by the combined stress of vanillin, furfural, and 5-hydroxymethylfurfural. <i>Journal of Biotechnology</i> , <b>2017</b> , 252, 65-72	3.7	12
35	Potential role of heme metabolism in the inducible expression of heme oxygenase-1. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2017</b> , 1861, 1813-1824	4	12
34	Characterization of Rat8 localization and mRNA export in <i>Saccharomyces cerevisiae</i> during the brewing of Japanese sake. <i>Applied Microbiology and Biotechnology</i> , <b>2005</b> , 69, 86-91	5.7	12
33	Methylglyoxal activates Gcn2 to phosphorylate eIF2alpha independently of the TOR pathway in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 86, 1887-94	5.7	11
32	Oxidative stress response in yeast: Induction of glucose-6-phosphate dehydrogenase by lipid hydroperoxide in <i>Hansenula mrakii</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>1995</b> , 80, 606-609		11
31	Ethanol stress response in the mRNA flux of <i>Saccharomyces cerevisiae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2010</b> , 74, 7-12	2.1	10
30	Role of Gcn4 for adaptation to methylglyoxal in <i>Saccharomyces cerevisiae</i> : methylglyoxal attenuates protein synthesis through phosphorylation of eIF2alpha. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 376, 738-42	3.4	10
29	Asr1, an alcohol-responsive factor of <i>Saccharomyces cerevisiae</i> , is dispensable for alcoholic fermentation. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 72, 560-5	5.7	10
28	The Histone Deacetylase Gene Rpd3 Is Required for Starvation Stress Resistance. <i>PLoS ONE</i> , <b>2016</b> , 11, e0167554	3.7	10
27	Efficient extraction of thioredoxin from <i>Saccharomyces cerevisiae</i> by ethanol. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 1672-5	4.8	9
26	Effects of alcohols on the hydrolysis of colominic acid catalyzed by <i>Streptococcus neuraminidase</i> . <i>Journal of Biochemistry</i> , <b>1995</b> , 117, 629-34	3.1	9
25	Oxidative Stress Response in Yeast: Purification and Some Properties of Oxidative Stress-inducible Glucose-6-phosphate Dehydrogenase from <i>Hansenula mrakii</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>1996</b> , 60, 966-970	2.1	9
24	Nuclear thioredoxin peroxidase Dot5 in <i>Saccharomyces cerevisiae</i> : roles in oxidative stress response and disruption of telomeric silencing. <i>Applied Microbiology and Biotechnology</i> , <b>2004</b> , 64, 120-4	5.7	8

23	Nutrient Signaling via the TORC1-Greatwall-PP2A Pathway Is Responsible for the High Initial Rates of Alcoholic Fermentation in Sake Yeast Strains of <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	8
22	Evaluation of Catechin and its Derivatives as Antioxidant: Recovery of Growth Arrest of <i>Escherichia coli</i> under Oxidative Conditions. <i>Journal of the Science of Food and Agriculture</i> , <b>1996</b> , 71, 297-300	4.3	7
21	Persistent actin depolarization caused by ethanol induces the formation of multiple small cortical septin rings in yeast. <i>Journal of Cell Science</i> , <b>2018</b> , 131,	5.3	6
20	Post-transcriptional regulation of gene expression in yeast under ethanol stress. <i>Biotechnology and Applied Biochemistry</i> , <b>2009</b> , 53, 93-9	2.8	6
19	Enhancements of the production of bilirubin and the expression of $\beta$ globin by carbon monoxide during erythroid differentiation. <i>FEBS Letters</i> , <b>2016</b> , 590, 1447-54	3.8	6
18	The VFH1 (YLL056C) promoter is vanillin-inducible and enables mRNA translation despite pronounced translation repression caused by severe vanillin stress in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , <b>2018</b> , 35, 465-475	3.4	5
17	Btn2 is involved in the clearance of denatured proteins caused by severe ethanol stress in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , <b>2019</b> , 19,	3.1	5
16	Temperature dependent N-glycosylation of plasma membrane heat shock protein Hsp30p in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2012</b> , 420, 119-23	3.4	5
15	Modulation of Spc1 stress-activated protein kinase activity by methylglyoxal through inhibition of protein phosphatase in the fission yeast <i>Schizosaccharomyces pombe</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 363, 942-7	3.4	4
14	Unique regulation of glyoxalase I activity during osmotic stress response in the fission yeast <i>Schizosaccharomyces pombe</i> : neither the mRNA nor the protein level of glyoxalase I increase under conditions that enhance its activity. <i>Archives of Microbiology</i> , <b>2005</b> , 183, 224-7	3	4
13	Isolation of lactic acid-tolerant <i>Saccharomyces cerevisiae</i> from Cameroonian alcoholic beverage. <i>Journal of Bioscience and Bioengineering</i> , <b>2014</b> , 118, 657-60	3.3	3
12	The novel heme-dependent inducible protein, SRRD regulates heme biosynthesis and circadian rhythms. <i>Archives of Biochemistry and Biophysics</i> , <b>2017</b> , 631, 19-29	4.1	3
11	Potential of Yeasts Isolated in Botrytized Grape Juice to be New Wine Yeasts. <i>Food Science and Technology Research</i> , <b>2008</b> , 14, 345-350	0.8	3
10	Release of thioredoxin from <i>Saccharomyces cerevisiae</i> with environmental stimuli: solubilization of thioredoxin with ethanol. <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 75, 1393-9	5.7	3
9	Acquired Resistance to Severe Ethanol Stress in <i>Saccharomyces cerevisiae</i> Protein Quality Control. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87,	4.8	3
8	Protein synthesis of Btn2 under pronounced translation repression during the process of alcoholic fermentation and wine-making in yeast. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 9669-9677	5.7	2
7	Xylene causes oxidative stress and pronounced translation repression in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2019</b> , 128, 697-703	3.3	1
6	Trans 18-carbon monoenoic fatty acid has distinct effects from its isomeric cis fatty acid on lipotoxicity and gene expression in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2017</b> , 123, 33-38	3.3	1

5	Yeast mRNA Flux During Brewing and Under Ethanol Stress Conditions <b>2015</b> , 43-57		1
4	Amino acid homeostatic control by TORC1 in under high hydrostatic pressure. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	53	1
3	Severe ethanol stress induces the preferential synthesis of mitochondrial disaggregase Hsp78 and formation of DUMPs in <i>Saccharomyces cerevisiae</i> .. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2022</b> , 130147	4	0
2	Improvement of Yeast Fermentation Efficiency Utilizing mRNAs Preferentially Translated Under Translational Repression <b>2018</b> , 1-15		
1	Ethanol Stress Response in mRNA Flux of <i>Saccharomyces cerevisiae</i> . <i>Journal of the Brewing Society of Japan</i> , <b>2010</b> , 105, 63-68		