Ken-Ichi Yoshida

List of Publications by Citations

112 papers	7,199 citations	33 h-index	84 g-index
117 ext. papers	7,744 ext. citations	4.6 avg, IF	4.79 L-index

#	Paper	IF	Citations
112	The complete genome sequence of the gram-positive bacterium Bacillus subtilis. *Nature*, **1997**, 390, 249-56	36.4	3107
111	Essential Bacillus subtilis genes. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 4678-83	11.5	1115
110	Combined transcriptome and proteome analysis as a powerful approach to study genes under glucose repression in Bacillus subtilis. *Nucleic Acids Research*, **2001**, 29, 683-92	20.1	192
109	DNA microarray analysis of Bacillus subtilis DegU, ComA and PhoP regulons: an approach to comprehensive analysis of B.subtilis two-component regulatory systems. *Nucleic Acids Research*, **2001**, 29, 3804-13	20.1	160
108	Comprehensive DNA microarray analysis of Bacillus subtilis two-component regulatory systems. *Journal of Bacteriology*, **2001**, 183, 7365-70	3.5	115
107	Organization and transcription of the myo-inositol operon, iol, of Bacillus subtilis. *Journal of Bacteriology*, **1997**, 179, 4591-8	3.5	114
106	Epigallocatechin gallate promotes GLUT4 translocation in skeletal muscle. *Biochemical and Biophysical Research Communications*, **2008**, 377, 286-90	3.4	95
105	myo-Inositol catabolism in Bacillus subtilis. *Journal of Biological Chemistry*, **2008**, 283, 10415-24	5.4	94
104	Cytochrome bd biosynthesis in Bacillus subtilis: characterization of the cydABCD operon. *Journal of Bacteriology*, **1998**, 180, 6571-80	3.5	88
103	D-pinitol and myo-inositol stimulate translocation of glucose transporter 4 in skeletal muscle of C57BL/6 mice. *Bioscience, Biotechnology and Biochemistry*, **2010**, 74, 1062-7	2.1	77
102	Identification of additional TnrA-regulated genes of Bacillus subtilis associated with a TnrA box. *Molecular Microbiology*, **2003**, 49, 157-65	4.1	76
101	DBTBS: a database of Bacillus subtilis promoters and transcription factors. *Nucleic Acids Research*, **2001**, 29, 278-80	20.1	65
100	Enhanced production of 2,3-butanediol by engineered Bacillus subtilis. *Applied Microbiology and Biotechnology*, **2012**, 94, 651-8	5.7	61
99	Rat L6 myotubes as an in vitro model system to study GLUT4-dependent glucose uptake stimulated by inositol derivatives. *Cytotechnology*, **2007**, 55, 103-8	2.2	58
98	DNA microarray analysis of Bacillus subtilis sigma factors of extracytoplasmic function family. *FEMS Microbiology Letters*, **2003**, 220, 155-60	2.9	58
97	A Single-Batch Fermentation System to Simulate Human Colonic Microbiota for High-Throughput Evaluation of Prebiotics. *PLoS ONE*, **2016**, 11, e0160533	3.7	58
96	Green and black tea suppress hyperglycemia and insulin resistance by retaining the expression of glucose transporter 4 in muscle of high-fat diet-fed C57BL/6J mice. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 12916-23	5.7	55

95	Interaction of a repressor and its binding sites for regulation of the Bacillus subtilis iol divergon. *Journal of Molecular Biology*, **1999**, 285, 917-29	6.5	48
94	Systematic study of gene expression and transcription organization in the gntZ-ywaA region of the Bacillus subtilis genome. *Microbiology (United Kingdom)*, **2000**, 146 (Pt 3), 573-579	2.9	48
93	Genetic modification of Bacillus subtilis for production of D-chiro-inositol, an investigational drug candidate for treatment of type 2 diabetes and polycystic ovary syndrome. *Applied and Environmental Microbiology*, **2006**, 72, 1310-5	4.8	46
92	Curcumin suppresses the transformation of an aryl hydrocarbon receptor through its phosphorylation. *Archives of Biochemistry and Biophysics*, **2007**, 466, 267-73	4.1	45
91	Interaction between the aryl hydrocarbon receptor and its antagonists, flavonoids. *Biochemical and Biophysical Research Communications*, **2007**, 359, 822-7	3.4	45
90	The Bacillus subtilis ywkA gene encodes a malic enzyme and its transcription is activated by the YufL/YufM two-component system in response to malate. *Microbiology (United Kingdom)*, **2003**, 149, 2331-2343	2.9	45
89	Identification of two myo-inositol transporter genes of Bacillus subtilis. *Journal of Bacteriology*, **2002**, 184, 983-91	3.5	44
88	An operon for a putative ATP-binding cassette transport system involved in acetoin utilization of Bacillus subtilis. *Journal of Bacteriology*, **2000**, 182, 5454-61	3.5	42
87	Suppression mechanisms of flavonoids on aryl hydrocarbon receptor-mediated signal transduction. *Archives of Biochemistry and Biophysics*, **2010**, 501, 134-41	4.1	41
86	Three asparagine synthetase genes of Bacillus subtilis. *Journal of Bacteriology*, **1999**, 181, 6081-91	3.5	41
85	Transcriptional regulation of Bacillus thuringiensis subsp. israelensis mosquito larvicidal crystal protein gene cryIVA. *Journal of Bacteriology*, **1993**, 175, 2750-3	3.5	39
84	2,3,7,8-tetrachlorodibenzo-p-dioxin impairs an insulin signaling pathway through the induction of tumor necrosis factor-alpha in adipocytes. *Toxicological Sciences*, **2010**, 115, 482-91	4.4	38
83	Tea catechins modulate the glucose transport system in 3T3-L1 adipocytes. *Food and Function*, **2010**, 1, 167-73	6.1	36
82	Predicting metals sensed by ArsR-SmtB repressors: allosteric interference by a non-effector metal. *Molecular Microbiology*, **2006**, 59, 1341-56	4.1	35
81	Counterselection system for Geobacillus kaustophilus HTA426 through disruption of pyrF and pyrR. *Applied and Environmental Microbiology*, **2012**, 78, 7376-83	4.8	34
80	The fifth gene of the iol operon of Bacillus subtilis, iolE, encodes 2-keto-myo-inositol dehydratase. *Microbiology (United Kingdom)*, **2004**, 150, 571-580	2.9	33
79	Identification and expression of the Bacillus subtilis fructose-1, 6-bisphosphatase gene (fbp). *Journal of Bacteriology*, **1998**, 180, 4309-13	3.5	33
78	Molokhia (Corchorus olitorius L.) extract suppresses transformation of the aryl hydrocarbon receptor induced by dioxins. *Food and Chemical Toxicology*, **2006**, 44, 250-60	4.7	31

77	Polysaccharide-degrading thermophiles generated by heterologous gene expression in Geobacillus kaustophilus HTA426. *Applied and Environmental Microbiology*, **2013**, 79, 5151-8	4.8	30
76	Antagonistic and agonistic effects of indigoids on the transformation of an aryl hydrocarbon receptor. *Archives of Biochemistry and Biophysics*, **2008**, 470, 187-99	4.1	30
75	Negative transcriptional regulation of the ilv-leu operon for biosynthesis of branched-chain amino acids through the Bacillus subtilis global regulator TnrA. *Journal of Bacteriology*, **2004**, 186, 7971-9	3.5	29
74	Identification of two scyllo-inositol dehydrogenases in Bacillus subtilis. *Microbiology (United Kingdom)*, **2010**, 156, 1538-1546	2.9	28
73	Missense mutations in the Bacillus subtilis gnt repressor that diminish operator binding ability. *Journal of Molecular Biology*, **1993**, 231, 167-74	6.5	27
72	Genetic transformation of Geobacillus kaustophilus HTA426 by conjugative transfer of host-mimicking plasmids. *Journal of Microbiology and Biotechnology*, **2012**, 22, 1279-87	3.3	27
71	Subcellular localization of flavonol aglycone in hepatocytes visualized by confocal laser scanning fluorescence microscope. *Cytotechnology*, **2009**, 59, 177-82	2.2	26
70	Accumulation of gene-targeted Bacillus subtilis mutations that enhance fermentative inosine production. *Applied Microbiology and Biotechnology*, **2010**, 87, 2195-207	5.7	26
69	Identification of two major ammonia-releasing reactions involved in secondary natto fermentation. *Bioscience, Biotechnology and Biochemistry*, **2008**, 72, 1869-76	2.1	26
68	Epigallocatechin gallate induces GLUT4 translocation in skeletal muscle through both PI3K- and AMPK-dependent pathways. *Food and Function*, **2018**, 9, 4223-4233	6.1	25
67	A cell factory of Bacillus subtilis engineered for the simple bioconversion of myo-inositol to scyllo-inositol, a potential therapeutic agent for Alzheimer's disease. *Microbial Cell Factories*, **2011**, 10, 69	6.4	25
66	Dual regulation of the Bacillus subtilis regulon comprising the lmrAB and yxaGH operons and yxaF gene by two transcriptional repressors, LmrA and YxaF, in response to flavonoids. *Journal of Bacteriology*, **2007**, 189, 5170-82	3.5	25
65	Effects of Bacillus thuringiensis var. israelensis 20-kDa protein on production of the Bti 130-kDa crystal protein in Escherichia coli. *Bioscience, Biotechnology and Biochemistry*, **1992**, 56, 1429-33	2.1	23
64	Suppressive effects of ethanolic extracts from propolis and its main botanical origin on dioxin toxicity. *Journal of Agricultural and Food Chemistry*, **2005**, 53, 10306-9	5.7	22
63	Cloning and sequencing of a 36-kb region of the Bacillus subtilis genome between the gnt and iol operons. *DNA Research*, **1995**, 2, 61-9	4.5	22
62	Comparison of three tannases cloned from closely related lactobacillus species: L. Plantarum, L. Paraplantarum, and L. Pentosus. *BMC Microbiology*, **2014**, 14, 87	4.5	21
61	Organization and expression of the Bacillus subtilis sigY operon. *Journal of Biochemistry*, **2003**, 134, 935-46	3.6	21
60	Bacillus subtilis LmrA is a repressor of the lmrAB and yxaGH operons: identification of its binding site and functional analysis of lmrB and yxaGH. *Journal of Bacteriology*, **2004**, 186, 5640-8	3.5	20

59	Co-Inoculation of Strain S141 and Strains Promotes Nodule Growth and Nitrogen Fixation. *Microorganisms*, **2020**, 8,	4.9	19
58	Three inositol dehydrogenases involved in utilization and interconversion of inositol stereoisomers in a thermophile, Geobacillus kaustophilus HTA426. *Microbiology (United Kingdom)*, **2012**, 158, 1942-1952	2.9	17
57	Characterization of the native form and the carboxy-terminally truncated halotolerant form of α-amylases from Bacillus subtilis strain FP-133. *Journal of Basic Microbiology*, **2015**, 55, 780-9	2.7	16
56	Enhanced secretion of natto phytase by Bacillus subtilis. *Bioscience, Biotechnology and Biochemistry*, **2015**, 79, 1906-14	2.1	16
55	Alkaline serine protease AprE plays an essential role in poly-γ-glutamate production during natto fermentation. *Bioscience, Biotechnology and Biochemistry*, **2013**, 77, 802-9	2.1	16
54	High-throughput evaluation of aryl hydrocarbon receptor-binding sites selected via chromatin immunoprecipitation-based screening in Hepa-1c1c7 cells stimulated with 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Genes and Genetic Systems*, **2008**, 83, 455-68	1.4	16
53	Detection of orally administered inositol stereoisomers in mouse blood plasma and their effects on translocation of glucose transporter 4 in skeletal muscle cells. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 4850-4	5.7	15
52	PhaP phasins play a principal role in poly-β-hydroxybutyrate accumulation in free-living Bradyrhizobium japonicum. *BMC Microbiology*, **2013**, 13, 290	4.5	14
51	A new-generation of Bacillus subtilis cell factory for further elevated scyllo-inositol production. *Microbial Cell Factories*, **2017**, 16, 67	6.4	14
50	Bacillus subtilis 5Snucleotidases with various functions and substrate specificities. *BMC Microbiology*, **2016**, 16, 249	4.5	14
49	An improved Bacillus subtilis cell factory for producing scyllo-inositol, a promising therapeutic agent for Alzheimer's disease. *Microbial Cell Factories*, **2013**, 12, 124	6.4	13
48	Secretion of heterologous thermostable cellulases in Bacillus subtilis. *Journal of General and Applied Microbiology*, **2014**, 60, 175-82	1.5	13
47	Aryl hydrocarbon receptor-mediated induction of the cytosolic phospholipase A(2)alpha gene by 2,3,7,8-tetrachlorodibenzo-p-dioxin in mouse hepatoma Hepa-1c1c7 cells. *Journal of Bioscience and Bioengineering*, **2009**, 108, 277-81	3.3	13
46	Cacao polyphenol extract suppresses transformation of an aryl hydrocarbon receptor in C57BL/6 mice. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 10399-405	5.7	13
45	A second-generation Bacillus cell factory for rare inositol production. *Bioengineered*, **2014**, 5, 331-4	5.7	12
44	Functional myo-inositol catabolic genes of Bacillus subtilis Natto are involved in depletion of pinitol in Natto (fermented soybean). *Bioscience, Biotechnology and Biochemistry*, **2006**, 70, 1913-20	2.1	12
43	Motif-guided identification of a glycoside hydrolase family 1 β-L-arabinofuranosidase in Bifidobacterium adolescentis. *Bioscience, Biotechnology and Biochemistry*, **2013**, 77, 1709-14	2.1	11
42	Differential substrate specificity of two inositol transporters of Bacillus subtilis. *Bioscience, Biotechnology and Biochemistry*, **2010**, 74, 1312-4	2.1	11

41	Molecular cloning and sequence analysis of two distinct halotolerant extracellular proteases from Bacillus subtilis FP-133. *Bioscience, Biotechnology and Biochemistry*, **2011**, 75, 148-51	2.1	11
40	Catechins in tea suppress the activity of cytochrome P450 1A1 through the aryl hydrocarbon receptor activation pathway in rat livers. *International Journal of Food Sciences and Nutrition*, **2015**, 66, 300-7	3.7	10
39	Improvement of transformation efficiency by strategic circumvention of restriction barriers in Streptomyces griseus. *Journal of Microbiology and Biotechnology*, **2011**, 21, 675-8	3.3	10
38	Bradyrhizobium diazoefficiens USDA110 PhaR functions for pleiotropic regulation of cellular processes besides PHB accumulation. *BMC Microbiology*, **2018**, 18, 156	4.5	10
37	Heterologous expression and characterisation of the Aspergillus aspartic protease involved in the hydrolysis and decolorisation of red-pigmented proteins. *Journal of the Science of Food and Agriculture*, **2017**, 97, 95-101	4.3	9
36	Taurine does not affect the composition, diversity, or metabolism of human colonic microbiota simulated in a single-batch fermentation system. *PLoS ONE*, **2017**, 12, e0180991	3.7	9
35	Bacillus subtilis gnt repressor mutants that diminish gluconate-binding ability. *Journal of Bacteriology*, **1995**, 177, 4813-6	3.5	9
34	Genome mining and motif modifications of glycoside hydrolase family 1 members encoded by Geobacillus kaustophilus HTA426 provide thermostable 6-phospho-β-glycosidase and α-fucosidase. *Applied Microbiology and Biotechnology*, **2013**, 97, 2929-38	5.7	8
33	Genome Sequence of S141, a New Strain of Plant Growth-Promoting Rhizobacterium Isolated from Soybean Rhizosphere. *Genome Announcements*, **2017**, 5,		8
32	Rapid conjugative mobilization of a 100 kb segment of Bacillus subtilis chromosomal DNA is mediated by a helper plasmid with no ability for self-transfer. *Microbial Cell Factories*, **2018**, 17, 13	6.4	7
31	Influences of N-linked glycosylation on the biochemical properties of aspartic protease from Aspergillus glaucus MA0196. *Process Biochemistry*, **2019**, 79, 74-80	4.8	7
30	Bacillus subtilis iolU encodes an additional NADP-dependent scyllo-inositol dehydrogenase. *Bioscience, Biotechnology and Biochemistry*, **2017**, 81, 1026-1032	2.1	6
29	Discovery of novel 2,3,4-trihydroxy-2-phenylacetophenone derivatives as anti-gram-positive antibacterial agents. *Bioscience, Biotechnology and Biochemistry*, **2009**, 73, 124-8	2.1	6
28	Analysis of an insertional operator mutation (gntOi) that affects the expression level of the Bacillus subtilis gnt operon, and characterization of gntOi suppressor mutations. *Molecular Genetics and Genomics*, **1995**, 248, 583-91		6
27	Nucleotide sequence and features of the Bacillus licheniformis gnt operon. *DNA Research*, **1994**, 1, 157-62	4.5	6
26	Enantioselective N-acetylation of 2-phenylglycine by an unusual N-acetyltransferase from Chryseobacterium sp. *Biotechnology Letters*, **2013**, 35, 1053-9	3	5
25	A bacterial cell factory converting glucose into scyllo-inositol, a therapeutic agent for Alzheimer's disease. *Communications Biology*, **2020**, 3, 93	6.7	4
24	Bacillus subtilis IolQ (DegA) is a transcriptional repressor of iolX encoding NAD-dependent scyllo-inositol dehydrogenase. *BMC Microbiology*, **2017**, 17, 154	4.5	4

23	Organic solvent-tolerant elastase efficiently hydrolyzes insoluble, cross-linked, protein fiber of eggshell membranes. *Biotechnology Letters*, **2012**, 34, 949-55	3	4
22	Identification of a functional 2-keto-myo-inositol dehydratase gene of Sinorhizobium fredii USDA191 required for myo-inositol utilization. *Bioscience, Biotechnology and Biochemistry*, **2006**, 70, 2957-64	2.1	4
21	A novel method for transforming the thermophilic bacterium Geobacillus kaustophilus. *Microbial Cell Factories*, **2018**, 17, 127	6.4	4
20	Characterization and mutation analysis of a halotolerant serine protease from a new isolate of Bacillus subtilis. *Biotechnology Letters*, **2018**, 40, 189-196	3	3
19	Molecular characterization of a novel N-acetyltransferase from Chryseobacterium sp. *Applied and Environmental Microbiology*, **2014**, 80, 1770-6	4.8	3
18	Engineering Bacillus subtilis Cells as Factories: Enzyme Secretion and Value-added Chemical Production. *Biotechnology and Bioprocess Engineering*, **2020**, 25, 872-885	3.1	3
17	Screening of indigenous plants from Japan for modulating effects on transformation of the aryl hydrocarbon receptor. *Asian Pacific Journal of Cancer Prevention*, **2006**, 7, 208-20	1.7	3
16	Hyperphosphorylation of DegU cancels CcpA-dependent catabolite repression of rocG in Bacillus subtilis. *BMC Microbiology*, **2015**, 15, 43	4.5	2
15	Production of scyllo-Inositol: Conversion of Rice Bran into a Promising Disease-Modifying Therapeutic Agent for Alzheimer's Disease. *Journal of Nutritional Science and Vitaminology*, **2019**, 65, S139-S142	1.1	2
14	Polyamino acid display on cell surfaces enhances salt and alcohol tolerance of Escherichia coli. *Biotechnology Letters*, **2015**, 37, 429-35	3	2
13	Antagonistic effect of the Ainu-selected traditional beneficial plants on the transformation of an aryl hydrocarbon receptor. *Journal of Food Science*, **2012**, 77, C420-9	3.4	2
12	Transcriptional regulation of the Bacillus subtilis asnH operon and role of the 5Sproximal long sequence triplication in RNA stabilization. *Microbiology (United Kingdom)*, **2010**, 156, 1632-1641	2.9	2
11	Importance of the central region of 130-kDa insecticidal proteins of Bacillus thuringiensis var. israelensis for their activity in vivo and in vitro. *Bioscience, Biotechnology and Biochemistry*, **1993**, 57, 584-90	2.1	2
10	Complete Genome Sequence of Thermophilic Bacterium Aeribacillus pallidus PI8. *Microbiology Resource Announcements*, **2020**, 9,	1.3	2
9	Insecticidal Activity of a Peptide Containing the 30th to 695th Amino Acid Residues of the 130-kDa Protein ofBacillus thuringiensisvar.israelensis. *Agricultural and Biological Chemistry*, **1989**, 53, 2121-2127		1
8	Identification of a repressor for the two operons required for inositol catabolism in. *Microbiology (United Kingdom)*, **2021**, 167,	2.9	1
7	Assessment of Plasmid pLS20 Conjugation in the Absence of Quorum Sensing Repression. *Microorganisms*, **2021**, 9,	4.9	1
6	Inositol Derivatives Stimulate Glucose Transport in Muscle Cells **2008**, 217-222		1

5	Homology modeling and prediction of the amino acid residues participating in the transfer of acetyl-CoA to arylalkylamine by the N-acetyltransferase from Chryseobacterium sp. *Biotechnology Letters*, **2017**, 39, 1699-1707	3
4	??????????????????. *Nippon Nogeikagaku Kaishi*, **2003**, 77, 12-17	
3	Binding of an Engineered 130-kDa Insecticidal Protein of Bacillus thuringiensis var. israelensis to Insect Cell Lines. *Bioscience, Biotechnology and Biochemistry*, **1993**, 57, 1200-1	2.1
2	Insulin-Mimetic Activity of Inositol Derivatives Depends on Phosphorylation of PKCζ in L6 Myotubes **2010**, 327-331	
1	A novel method for transforming Geobacillus kaustophilus with a chromosomal segment of Bacillus subtilis transferred via pLS20-dependent conjugation.. *Microbial Cell Factories*, **2022**, 21, 34	6.4