Tetsuo Kobayashi

List of Publications by Year in descending order

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		126708	82410
107	5,448	33	72
papers	citations	h-index	g-index
100	100	100	1160
109	109	109	4469
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genomic sequence of the pathogenic and allergenic filamentous fungus Aspergillus fumigatus. Nature, 2005, 438, 1151-1156.	13.7	1,272
2	Genome sequencing and analysis of Aspergillus oryzae. Nature, 2005, 438, 1157-1161.	13.7	1,128
3	Genomics of Aspergillus oryzae. Bioscience, Biotechnology and Biochemistry, 2007, 71, 646-670.	0.6	163
4	Novel α-Glucosidase from Aspergillus nidulans with Strong Transglycosylation Activity. Applied and Environmental Microbiology, 2002, 68, 1250-1256.	1.4	120
5	Identification of specific binding sites for XYR1, a transcriptional activator of cellulolytic and xylanolytic genes in Trichoderma reesei. Fungal Genetics and Biology, 2009, 46, 564-574.	0.9	117
6	Complex regulation of hydrolytic enzyme genes for cellulosic biomass degradation in filamentous fungi. Applied Microbiology and Biotechnology, 2014, 98, 4829-4837.	1.7	112
7	Genes regulated by AoXlnR, the xylanolytic and cellulolytic transcriptional regulator, in Aspergillus oryzae. Applied Microbiology and Biotechnology, 2009, 85, 141-154.	1.7	104
8	Thermococcus profundus sp. nov., A New Hyperthermophilic Archaeon Isolated from a Deep-sea Hydrothermal Vent. Systematic and Applied Microbiology, 1994, 17, 232-236.	1.2	96
9	A Transcriptional Activator, AoXlnR, Controls the Expression of Genes Encoding Xylanolytic Enzymes in Aspergillus oryzae. Fungal Genetics and Biology, 2002, 35, 157-169.	0.9	90
10	Characterization of the amyR gene encoding a transcriptional activator for the amylase genes in Aspergillus nidulans. Current Genetics, 2001, 39, 10-15.	0.8	81
11	ManR, a novel Zn(II)2Cys6 transcriptional activator, controls the \hat{l}^2 -mannan utilization system in Aspergillus oryzae. Fungal Genetics and Biology, 2012, 49, 987-995.	0.9	79
12	The SskA and SrrA Response Regulators Are Implicated in Oxidative Stress Responses of Hyphae and Asexual Spores in the Phosphorelay Signaling Network of Aspergillus nidulans. Bioscience, Biotechnology and Biochemistry, 2007, 71, 1003-1014.	0.6	75
13	Construction of an excretion vector and extracellular production of human growth hormone from Escherichia coli. Gene, 1987, 54, 197-202.	1.0	74
14	Analysis of Expressed Sequence Tags from the Fungus Aspergillus oryzae Cultured Under Different Conditions. DNA Research, 2007, 14, 47-57.	1.5	73
15	Characterization of the NikA Histidine Kinase Implicated in the Phosphorelay Signal Transduction of Aspergillus nidulans, with Special Reference to Fungicide Responses. Bioscience, Biotechnology and Biochemistry, 2007, 71, 844-847.	0.6	73
16	A Single Subunit of a Heterotrimeric CCAAT-binding Complex Carries a Nuclear Localization Signal: Piggy Back Transport of the Pre-assembled Complex to the Nucleus. Journal of Molecular Biology, 2004, 342, 515-524.	2.0	70
17	Transcriptional activator, AoXlnR, mediates cellulose-inductive expression of the xylanolytic and cellulolytic genes inAspergillus oryzae. FEBS Letters, 2002, 528, 279-282.	1.3	65
18	Regulation of the amylolytic and (hemi-)cellulolytic genes in aspergilli. Journal of General and Applied Microbiology, 2001, 47, 1-19.	0.4	61

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19	Properties of Glutamate Dehydrogenase and Its Involvement in Alanine Production in a Hyperthermophilic Archaeon, Thermococcus profundus1. Journal of Biochemistry, 1995, 118, 587-592.	0.9	58
20	ManR, a Transcriptional Regulator of the β-Mannan Utilization System, Controls the Cellulose Utilization System in <i>Aspergillus oryzae</i> . Bioscience, Biotechnology and Biochemistry, 2013, 77, 426-429.	0.6	55
21	Novel \hat{l}^2 -1,4-Mannanase Belonging to a New Glycoside Hydrolase Family in Aspergillus nidulans. Journal of Biological Chemistry, 2015, 290, 27914-27927.	1.6	53
22	Genome sequence of <i>Aspergillus luchuensis </i> NBRC 4314. DNA Research, 2016, 23, 507-515.	1.5	48
23	Xylose Triggers Reversible Phosphorylation of XlnR, the Fungal Transcriptional Activator of Xylanolytic and Cellulolytic Genes in <i>Aspergillus oryzae</i> Bioscience, Biotechnology and Biochemistry, 2011, 75, 953-959.	0.6	45
24	Expression Profile of Amylolytic Genes in Aspergillus nidulans. Bioscience, Biotechnology and Biochemistry, 2006, 70, 2363-2370.	0.6	43
25	Conservation and diversity of the regulators of cellulolytic enzyme genes in Ascomycete fungi. Current Genetics, 2017, 63, 951-958.	0.8	41
26	Biochemical characterization of thermostable \hat{l}^2 -1,4-mannanase belonging to the glycoside hydrolase family 134 from Aspergillus oryzae. Applied Microbiology and Biotechnology, 2017, 101, 3237-3245.	1.7	40
27	Enzymatic saccharification of Eucalyptus bark using hydrothermal pre-treatment with carbon dioxide. Bioresource Technology, 2010, 101, 4936-4939.	4.8	39
28	Cloning, nucleotide sequence, and hyperexpression of \hat{l}_{\pm} -amylase gene from an archaeon, Thermococcus profundus. Journal of Bioscience and Bioengineering, 1996, 82, 432-438.	0.9	36
29	Sequence analysis of the gene for and characterization of d-acetoin forming meso-2,3-butanediol dehydrogenase of Klebsiella pneumoniae expressed in Escherichia coli. Journal of Bioscience and Bioengineering, 1997, 83, 32-37.	0.9	36
30	Structure and expression properties of the endo- $\tilde{A}\check{Z}\hat{A}^2$ -1,4-glucanase A gene from the filamentous fungusAspergillus nidulans. FEMS Microbiology Letters, 1999, 175, 239-245.	0.7	36
31	Deciphering the Combinatorial DNA-binding Code of the CCAAT-binding Complex and the Iron-regulatory Basic Region Leucine Zipper (bZIP) Transcription Factor HapX. Journal of Biological Chemistry, 2015, 290, 6058-6070.	1.6	36
32	Isomaltose formed by α-glucosidases triggers amylase induction in Aspergillus nidulans. Current Genetics, 2002, 42, 43-50.	0.8	35
33	Inducer-Dependent Nuclear Localization of a Zn(II) ₂ Cys ₆ Transcriptional Activator, AmyR, in <i>Aspergillus nidulans</i> . Bioscience, Biotechnology and Biochemistry, 2009, 73, 391-399.	0.6	35
34	In Vivo and in Vitro Analyses of the AmyR Binding Site of the Aspergillus nidulans agdA Promoter; Requirement of the CGG Direct Repeat for Induction and High Affinity Binding of AmyR. Bioscience, Biotechnology and Biochemistry, 2001, 65, 1568-1574.	0.6	34
35	Isolation of genes encoding novel transcription factors which interact with the Hap complex from Aspergillus species. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2002, 1576, 176-182.	2.4	33
36	Construction of an excretion vector: Extracellular production of Aeromonas xylanase and Bacillus cellulases by Escherichia coli. FEMS Microbiology Letters, 1986, 36, 31-34.	0.7	30

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37	Comparison and characterization of $\hat{l}\pm$ -amylase inducers in Aspergillus nidulans based on nuclear localization of AmyR. Applied Microbiology and Biotechnology, 2012, 94, 1629-1635.	1.7	30
38	Mode of AmyR Binding to the CGGN8AGG Sequence in the Aspergillus oryzaetaa G2Promoter. Bioscience, Biotechnology and Biochemistry, 2004, 68, 1906-1911.	0.6	29
39	Construction of a Bacterial Artificial Chromosome Library for a Myxobacterium of the GenusCystobacterand Characterization of an Antibiotic Biosynthetic Gene Cluster. Bioscience, Biotechnology and Biochemistry, 2005, 69, 1372-1380.	0.6	29
40	ASYMMETRIC-LEAVES2 and an ortholog of eukaryotic NudC domain proteins repress expression of <i>AUXIN-RESPONSE-FACTOR</i> and class 1 <i>KNOX</i> homeobox genes for development of flat symmetric leaves in <i>Arabidopsis</i> . Biology Open, 2012, 1, 197-207.	0.6	28
41	Identification of the cis-acting elements involved in regulation of xylanase III gene expression in Trichoderma reesei PC-3-7. Fungal Genetics and Biology, 2008, 45, 1094-1102.	0.9	27
42	An Aspergillus oryzae CCAAT-binding protein, AoCP, is involved in the high-level expression of the Taka-amylase A gene. Current Genetics, 2000, 37, 380-387.	0.8	25
43	Nuclear translocation of the heterotrimeric CCAAT binding factor of Aspergillus oryzae is dependent on two redundant localising signals in a single subunit. Archives of Microbiology, 2005, 184, 93-100.	1.0	25
44	In VitroAnalysis of His-Asp Phosphorelays inAspergillus nidulans: The First Direct Biochemical Evidence for the Existence of His-Asp Phosphotransfer Systems in Filamentous Fungi. Bioscience, Biotechnology and Biochemistry, 2007, 71, 2493-2502.	0.6	25
45	Novel Reporter Gene Expression Systems for Monitoring Activation of the Aspergillus nidulans HOG Pathway. Bioscience, Biotechnology and Biochemistry, 2007, 71, 1724-1730.	0.6	23
46	Novel Promoter Sequence Required for Inductive Expression of the <i>Aspergillus nidulans </i> Endoglucanase Gene <i>eglA </i> . Bioscience, Biotechnology and Biochemistry, 2008, 72, 312-320.	0.6	23
47	Regulation of cellulolytic genes by McmA, the SRF-MADS box protein in Aspergillus nidulans. Biochemical and Biophysical Research Communications, 2013, 431, 777-782.	1.0	23
48	CreA-independent carbon catabolite repression of cellulase genes by trimeric G-protein and protein kinase A in Aspergillus nidulans. Current Genetics, 2019, 65, 941-952.	0.8	23
49	Molecular cloning, nucleotide sequence and expression of the structural gene for a thermostable alkaline protease from Bacillus sp. no. AH-101. Applied Microbiology and Biotechnology, 1992, 38, 101-8.	1.7	22
50	A novel nuclear factor, SREB, binds to a cis-acting element, SRE, required for inducible expression of the Aspergillus oryzae Taka-amylase A gene in A. nidulans. Molecular Genetics and Genomics, 2000, 263, 232-238.	2.4	22
51	Regulation of genes encoding cellulolytic enzymes by Pal-PacC signaling in Aspergillus nidulans. Applied Microbiology and Biotechnology, 2016, 100, 3621-3635.	1.7	22
52	A set of heterologous promoters useful for investigating gene functions in Fusarium graminearum. Mycotoxins, 2014, 64, 147-152.	0.2	21
53	Functional analysis of the egl3 upstream region in filamentous fungus Trichoderma reesei. Applied Microbiology and Biotechnology, 2008, 78, 515-524.	1.7	20
54	Hydroxylations of trichothecene rings in the biosynthesis of <i>Fusarium</i> trichothecenes: evolution of alternative pathways in the nivalenol chemotype. Environmental Microbiology, 2016, 18, 3798-3811.	1.8	20

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55	Comparison of the paralogous transcription factors AraR and XlnR in Aspergillus oryzae. Current Genetics, 2018, 64, 1245-1260.	0.8	19
56	Isolation and characterization of a pock-forming plasmid pTA4001 from Streptomyces lavendulae Journal of Antibiotics, 1984, 37, 368-375.	1.0	17
57	Cloning and characterization of the streptothricin-resistance gene which encodes streptothricin acetyltransferase from Streptomyces lavendulae Journal of Antibiotics, 1986, 39, 688-693.	1.0	17
58	Molecular Cloning, Nucleotide Sequence, and Expression of the Structural Gene for Alkaline Serine Protease from AlkaliphilicBacillussp. 221. Bioscience, Biotechnology and Biochemistry, 1992, 56, 1455-1460.	0.6	17
59	AoHapB, AoHapC and AoHapE, subunits of the Aspergillus oryzae CCAAT-binding complex, are functionally interchangeable with the corresponding subunits in Aspergillus nidulans. Current Genetics, 2001, 39, 175-182.	0.8	17
60	GFP-Tagged Expression Analysis Revealed That Some Histidine Kinases of (i) Aspergillus nidulans (i) Show Temporally and Spatially Different Expression during the Life Cycle. Bioscience, Biotechnology and Biochemistry, 2008, 72, 428-434.	0.6	16
61	<scp>M</scp> cm <scp>A</scp> â€dependent and â€independent regulatory systems governing expression of <scp>C</scp> lr <scp>B</scp> â€regulated cellulase and hemicellulase genes in <scp><i>A</i></scp> <i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C<i>Stop>C</i>Stop>C</i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i>	1.2	15
62	Purification and biochemical characterization of streptothricin acetyltransferase coded by the cloned streptothricin-resistance gene of Streptomyces lavendulae Journal of Antibiotics, 1987, 40, 1016-1022.	1.0	14
63	Preparation of a chiral acetoinic compound using transgenic Escherichia coli expressing the 2,3-butanediol dehydrogenase gene. Journal of Bioscience and Bioengineering, 1996, 81, 386-389.	0.9	14
64	Control of reactive oxygen species (ROS) production through histidine kinases in <i>Aspergillus nidulans</i> under different growth conditions. FEBS Open Bio, 2014, 4, 90-95.	1.0	13
65	Spatial Abundance and Distribution of Potential Microbes and Functional Genes Associated with Anaerobic Mineralization of Pentachlorophenol in a Cylindrical Reactor. Scientific Reports, 2016, 6, 19015.	1.6	13
66	l-Threonine and its analogue added to autoclaved solid medium suppress trichothecene production by Fusarium graminearum. Archives of Microbiology, 2017, 199, 945-952.	1.0	12
67	Molecular cloning, nucleotide sequence and expression in Escherichia coli of hyperthermophilic glutamate dehydrogenase gene from Thermococcus profundus. Journal of Bioscience and Bioengineering, 1997, 83, 405-411.	0.9	11
68	Post-genomic approaches to understanding interactions between fungi and their environment. IMA Fungus, 2011, 2, 81-86.	1.7	11
69	Comprehensive Analysis of the DNA-Binding Specificity of an <i>Aspergillus nidulans</i> Transcription Factor, AmyR, Using a Bead Display System. Bioscience, Biotechnology and Biochemistry, 2012, 76, 1128-1134.	0.6	11
70	Identification and Characterization of an Inhibitor of Trichothecene 3- <i>O</i> -Acetyltransferase, TRI101, by the Chemical Array Approach. Bioscience, Biotechnology and Biochemistry, 2013, 77, 1958-1960.	0.6	11
71	Effect of disrupting the trichothecene efflux pump encoded by <i>FgTri12</i> in the nivalenol chemotype of <i>Fusarium graminearum</i> . Journal of General and Applied Microbiology, 2015, 61, 93-96.	0.4	11
72	Oligosaccharides containing an \hat{l} ±- $(1~\hat{a}$ †' 2) (glucosyl/xylosyl)-fructosyl linkage as inducer molecules of trichothecene biosynthesis for Fusarium graminearum. International Journal of Food Microbiology, 2016, 238, 215-221.	2.1	11

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73	Comprehensive investigation of the gene expression system regulated by an Aspergillus oryzae transcription factor XInR using integrated mining of gSELEX-Seq and microarray data. BMC Genomics, 2019, 20, 16.	1.2	11
74	A Robust Analytical Pipeline for Genome-Wide Identification of the Genes Regulated by a Transcription Factor: Combinatorial Analysis Performed Using gSELEX-Seq and RNA-Seq. PLoS ONE, 2016, 11, e0159011.	1.1	11
75	Title is missing!. Biotechnology Letters, 2002, 24, 1089-1096.	1.1	10
76	High-throughput screening of DNA binding sites for transcription factor AmyR from Aspergillus nidulans using DNA beads display system. Journal of Bioscience and Bioengineering, 2010, 109, 519-525.	1.1	10
77	Involvement of an SRF-MADS protein McmA in regulation of extracellular enzyme production and asexual/sexual development in <i>Aspergillus nidulans</i> Bioscience, Biotechnology and Biochemistry, 2016, 80, 1820-1828.	0.6	10
78	Identification of amino acids negatively affecting Fusarium trichothecene biosynthesis. Antonie Van Leeuwenhoek, 2019, 112, 471-478.	0.7	10
79	A Hyperthermophilic Sulfur-reducing Archaebacterium, Thermococcussp. DT1331, Isolated from a Deep-sea Hydrothermal Vent. Bioscience, Biotechnology and Biochemistry, 1995, 59, 1666-1669.	0.6	9
80	No Factors Except for the Hap Complex increase the Taka-amylase A Gene Expression by Binding to the CCAAT Sequence in the Promoter Region. Bioscience, Biotechnology and Biochemistry, 2001, 65, 2340-2342.	0.6	9
81	Upward shift of the pH optimum of Acremonium ascorbate oxidase. BBA - Proteins and Proteomics, 2002, 1596, 36-46.	2.1	9
82	A Simple and Rapid Method for the Preparation of a Cell-free Extract with CCAAT-Binding Activity from Filamentous Fungi. Bioscience, Biotechnology and Biochemistry, 2000, 64, 455-457.	0.6	8
83	Identification of a trichothecene production inhibitor by chemical array and library screening using trichodiene synthase as a target protein. Pesticide Biochemistry and Physiology, 2017, 138, 1-7.	1.6	7
84	Inhibition of Fusarium trichothecene biosynthesis by yeast extract components extractable with ethyl acetate. International Journal of Food Microbiology, 2019, 289, 24-29.	2.1	7
85	Characterization of the acivicin effects on trichothecene production by <i>Fusarium graminearum (i) species complex. Journal of General and Applied Microbiology, 2016, 62, 272-276.</i>	0.4	6
86	Substrate specificities of Fusarium biosynthetic enzymes explain the genetic basis of a mixed chemotype producing both deoxynivalenol and nivalenol-type trichothecenes. International Journal of Food Microbiology, 2020, 320, 108532.	2.1	6
87	Molecular Cloning and Nucleotide Sequence of thegroELGene from the AlkaliphilicBacillussp. Strain C-125 and Reactivation of Thermally Inactivatedα-Glucosidase by Recombinant GroEL. Bioscience, Biotechnology and Biochemistry, 1996, 60, 1633-1636.	0.6	5
88	Identification and Characterization of Small Molecule Compounds That Modulate Trichothecene Production by <i>Fusarium graminearum</i> <i i=""> </i> ACS Chemical Biology, 2018, 13, 1260-1269.	1.6	5
89	Artificial AmyR::XlnR transcription factor induces α-amylase production in response to non-edible xylan-containing hemicellulosic biomass. Enzyme and Microbial Technology, 2021, 145, 109762.	1.6	5
90	Structural features of the glycogen branching enzyme encoding genes from aspergilli. Microbiological Research, 2002, 157, 337-344.	2.5	4

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91	Upregulation of promoter activity of the Aspergillus oryzae xylanase gene by site-directed mutagenesis. Biotechnology Letters, 2003, 25, 371-374.	1.1	4
92	The Region in a Subunit of theAspergillusCCAAT-Binding Protein Similar to the HAP4p-Recruiting Domain ofSaccharomyces cerevisiaeHap5p Is Not Essential for Transcriptional Enhancement. Bioscience, Biotechnology and Biochemistry, 2006, 70, 782-787.	0.6	4
93	Trichothecene production in axenic liquid culture of <i>Fusarium graminearum</i> using xylose as a carbon source. Mycotoxins, 2016, 66, 17-19.	0.2	4
94	Re-examination of genetic and nutritional factors related to trichothecene biosynthesis in Fusarium graminearum. Bioscience, Biotechnology and Biochemistry, 2016, 80, 414-417.	0.6	4
95	Impact of nitrogen metabolism-associated culture pH changes on regulation of Fusarium trichothecene biosynthesis: revision of roles of polyamine agmatine and transcription factor AreA. Current Genetics, 2020, 66, 1179-1190.	0.8	4
96	A hypothetical protein (P20), homologous to Tn3 repressor is encoded downstream from theblaregulatory region inBacillus licheniformis749. Nucleic Acids Research, 1988, 16, 5691-5691.	6.5	2
97	Nuclear localization and relative stability of the zinc finger domain of TRI6 trichothecene regulator. Mycotoxins, 2016, 66, 13-15.	0.2	2
98	Location of F1ATPase-like Genes on the Physical Map of theBacillus subtilis168 Chromosome. Bioscience, Biotechnology and Biochemistry, 1993, 57, 1202-1203.	0.6	1
99	Production of reactive oxygen species in <i>Aspergillus nidulans</i> through the function of His-Asp phosphorelay signal transduction system. Mycotoxins, 2015, 65, 49-56.	0.2	1
100	Regulation of plant biomass-degrading enzyme genes in filamentous fungi. Mycotoxins, 2016, 66, 85-96.	0.2	1
101	Accumulation of an unusual trichothecene shunt metabolite in liquid culture of <i>Fusarium graminearum </i> with methionine as the sole nitrogen source. Mycotoxins, 2017, 67, 7-9.	0.2	1
102	Metabolic Properties of Marine Hyperthermophiles, The Most Primitive Organisms on Earth Kagaku To Seibutsu, 1995, 33, 796-802.	0.0	0
103	æ€è€fã•ã,‰æf³åfã¸ï¼Œã㕖㕦創é€ã¸ Kagaku To Seibutsu, 2009, 47, 665-665.	0.0	0
104	Title is missing!. Kagaku To Seibutsu, 2009, 47, 718-724.	0.0	0
105	Introduction of a leptomycin-sensitive mutation into <i>Fusarium graminearum</i> . Mycotoxins, 2016, 66, 9-11.	0.2	0
106	Synthetic liquid media for the study of trichothecene biosynthesis regulation in <i>Fusarium graminearum </i> . Mycotoxins, 2020, 70, 57-59.	0.2	0
107	Generation of mitochondrial reactive oxygen species through a histidine kinase, HysA in <i>Aspergillus nidulans</i> . Journal of General and Applied Microbiology, 2022, , .	0.4	0