

# Shouji Takahashi

## List of Publications by Year in descending order

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49  
papers

1,002  
citations

471509

17  
h-index

434195

31  
g-index

49  
all docs

49  
docs citations

49  
times ranked

839  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Mechanism of high d-aspartate production in the lactic acid bacterium <i>Latilactobacillus</i> sp. strain WDN19. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 2651-2663.  | 3.6 | 1         |
| 2  | Complete Genome Sequence of <i>Latilactobacillus</i> sp. Strain WDN19, a High- d- Aspartate-Producing Lactic Acid Bacterium Isolated from a Japanese Pickle. <i>Microbiology Resource Announcements</i> , 2021, 10, e0056821.             | 0.6 | 1         |
| 3  | Development of an enzymatic screening method for d-aspartate-producing lactic acid bacteria. <i>Enzyme and Microbial Technology</i> , 2021, 149, 109835.  | 3.2 | 5         |
| 4  | Identification of an Acidic Amino Acid Permease Involved in d-Aspartate Uptake in the Yeast <i>Cryptococcus humicola</i> . <i>Microorganisms</i> , 2021, 9, 192.  | 3.6 | 2         |
| 5  | Regulation of d-Aspartate Oxidase Gene Expression by Pyruvate Metabolism in the Yeast <i>Cryptococcus humicola</i> . <i>Microorganisms</i> , 2021, 9, 2444.   | 3.6 | 0         |
| 6  | Aspartate racemase and d-aspartate in starfish; possible involvement in testicular maturation. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 95-102.  | 1.3 | 3         |
| 7  | Liquid chromatography-electrospray ionization-tandem mass spectrometric assay for d-aspartate N-methyltransferase activity in ark shells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 500-506.                          | 1.3 | 1         |
| 8  | d-Aspartate N-methyltransferase catalyzes biosynthesis of N-methyl-d-aspartate (NMDA), a well-known selective agonist of the NMDA receptor, in mice. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140527. | 2.3 | 4         |
| 9  | X-ray structure analysis of a unique d-amino-acid oxidase from the thermophilic fungus <i>Rasamsonia emersonii</i> strain YA. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2020, 76, 517-523.             | 0.8 | 4         |
| 10 | d-Aspartate oxidase: distribution, functions, properties, and biotechnological applications. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 2883-2895.  | 3.6 | 12        |
| 11 | Enzymatic characterization and regulation of gene expression of PhoK alkaline phosphatase in <i>Sphingobium</i> sp. strain TCM1. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 1125-1134.                                    | 3.6 | 3         |
| 12 | A novel thermostable d-amino acid oxidase of the thermophilic fungus <i>Rasamsonia emersonii</i> strain YA. <i>Scientific Reports</i> , 2019, 9, 11948.   | 3.3 | 14        |
| 13 | Characterization and improvement of substrate-binding affinity of d-aspartate oxidase of the thermophilic fungus <i>Thermomyces dupontii</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 4053-4064.                      | 3.6 | 11        |
| 14 | Draft Genome Sequence of the Yeast <i>Vanrija humicola</i> (Formerly <i>Cryptococcus humicola</i> ) Strain UJ1, a Producer of d-Aspartate Oxidase. <i>Genome Announcements</i> , 2018, 6, .   | 0.8 | 5         |
| 15 | Identification of alkaline phosphatase genes for utilizing a flame retardant, tris(2-chloroethyl) phosphate, in <i>Sphingobium</i> sp. strain TCM1. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2153-2162.                 | 3.6 | 31        |
| 16 | An atypical phosphodiesterase capable of degrading haloalkyl phosphate diesters from <i>Sphingobium</i> sp. strain TCM1. <i>Scientific Reports</i> , 2017, 7, 2842.   | 3.3 | 14        |
| 17 | Crystal structure of a pyridoxal 5-phosphate-dependent aspartate racemase derived from the bivalve mollusc <i>Scapharca broughtonii</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2017, 73, 651-656. | 0.8 | 4         |
| 18 | Draft Genome Sequences of <i>Sphingobium</i> sp. Strain TCM1 and <i>Sphingomonas</i> sp. Strain TDK1, Haloalkyl Phosphate Flame Retardant- and Plasticizer-Degrading Bacteria. <i>Genome Announcements</i> , 2016, 4, .                   | 0.8 | 8         |

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|----|---|-----|-----------|
| 19 | Bacterial d-amino acid oxidases: Recent findings and future perspectives. <i>Bioengineered</i> , 2015, 6, 237-241.  | 3.2 | 37        |
| 20 | Possible role of a histidine residue in the substrate specificity of yeast d-aspartate oxidase. <i>Journal of Biochemistry</i> , 2015, 159, mvv108.   | 1.7 | 5         |
| 21 | Genetic transformation of the yeast <i>Rhodotorula gracilis</i> ATCC 26217 by electroporation. <i>Applied Biochemistry and Microbiology</i> , 2014, 50, 624-628.  | 0.9 | 18        |
| 22 | D-Amino acid oxidase of <i>Streptomyces coelicolor</i> and the effect of D-amino acids on the bacterium. <i>Annals of Microbiology</i> , 2014, 64, 1167-1177.   | 2.6 | 14        |
| 23 | Haloalkylphosphorus Hydrolases Purified from <i>Sphingomonas</i> sp. Strain TDK1 and <i>Sphingobium</i> sp. Strain TCM1. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5866-5873.   | 3.1 | 33        |
| 24 | A Highly Stable d-Amino Acid Oxidase of the Thermophilic Bacterium <i>Rubrobacter xylanophilus</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 7219-7229.   | 3.1 | 31        |
| 25 | Complete detoxification of tris(2-chloroethyl) phosphate by two bacterial strains: <i>Sphingobium</i> sp. strain TCM1 and <i>Xanthobacter autotrophicus</i> strain CJ10. <i>Journal of Bioscience and Bioengineering</i> , 2012, 114, 306-311.  | 2.2 | 15        |
| 26 | d-Amino Acid-Induced Expression of d-Amino Acid Oxidase in the Yeast <i>Schizosaccharomyces pombe</i> . <i>Current Microbiology</i> , 2012, 65, 764-769.  | 2.2 | 7         |
| 27 | Complete detoxification of tris(1,3-dichloro-2-propyl) phosphate by mixed two bacteria, <i>Sphingobium</i> sp. strain TCM1 and <i>Arthrobacter</i> sp. strain PY1. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 79-83.  | 2.2 | 14        |
| 28 | Determination of d-aspartate N-methyltransferase activity in the starfish by direct analysis of N-methyl-d-aspartate with high-performance liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3229-3234. | 2.3 | 7         |
| 29 | Development of an autonomously replicating linear vector of the yeast <i>Cryptococcus humicola</i> by using telomere-like sequence repeats. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1213-1221.  | 3.6 | 7         |
| 30 | Isolation and Identification of Persistent Chlorinated Organophosphorus Flame Retardant-Degrading Bacteria. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5292-5296.  | 3.1 | 40        |
| 31 | An active-site mutation enhances the catalytic activity of the yeast <i>Cryptococcus humicola</i> d-aspartate oxidase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 61, 235-240.  | 1.8 | 5         |
| 32 | Cloning and expression of carp acetylcholinesterase gene in <i>Pichia pastoris</i> and characterization of the recombinant enzyme. <i>Protein Expression and Purification</i> , 2009, 64, 205-212.  | 1.3 | 15        |
| 33 | Enrichment and characterization of chlorinated organophosphate ester-degrading mixed bacterial cultures. <i>Journal of Bioscience and Bioengineering</i> , 2008, 106, 27-32.  | 2.2 | 33        |
| 34 | Cloning and Expression of the Pyridoxal 5-phosphate-Dependent Aspartate Racemase Gene from the Bivalve Mollusk <i>Scapharca broughtonii</i> and Characterization of the Recombinant Enzyme. <i>Journal of Biochemistry</i> , 2006, 139, 235-244.  | 1.7 | 36        |
| 35 | Occurrence and functions of free d-aspartate and its metabolizing enzymes. <i>Chemical Record</i> , 2006, 6, 259-266.   | 5.8 | 8         |
| 36 | Physiological role of d-aspartate oxidase in the assimilation and detoxification of d-aspartate in the yeast <i>Cryptococcus humicola</i> . <i>Yeast</i> , 2005, 22, 1203-1212.   | 1.7 | 20        |

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|----|---|-----|-----------|
| 37 | Cloning and Expression in Escherichia coli of the D-Aspartate Oxidase Gene from the Yeast <i>Cryptococcus humicola</i> and Characterization of the Recombinant Enzyme. <i>Journal of Biochemistry</i> , 2004, 135, 533-540.                                   | 1.7 | 25        |
| 38 | Isolation of the <i>Cryptococcus humicolus</i> URA3 gene encoding orotidine-5-phosphate decarboxylase and its use as a selective marker for transformation. <i>Journal of Bioscience and Bioengineering</i> , 2003, 96, 23-31.                                | 2.2 | 6         |
| 39 | N-Methyl-d-glutamate and N-methyl-l-glutamate in <i>Scapharca broughtonii</i> (Mollusca) and other invertebrates. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003, 134, 79-87.                                   | 1.6 | 50        |
| 40 | Purification and characterization of aspartate racemase from the bivalve mollusk <i>Scapharca broughtonii</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003, 134, 307-314.                                   | 1.6 | 53        |
| 41 | Nucleotides modulate the activity of aspartate racemase of <i>Scapharca broughtonii</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003, 134, 713-719.   | 1.6 | 15        |
| 42 | Direct and Efficient Production of Ethanol from Cellulosic Material with a Yeast Strain Displaying Cellulolytic Enzymes. <i>Applied and Environmental Microbiology</i> , 2002, 68, 5136-5141.   | 3.1 | 215       |
| 43 | Expression of <i>Rhizopus oryzae</i> lipase gene in <i>Saccharomyces cerevisiae</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 17, 113-124.   | 1.8 | 33        |
| 44 | Preparation of high activity yeast whole cell biocatalysts by optimization of intracellular production of recombinant <i>Rhizopus oryzae</i> lipase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 17, 143-149.                                  | 1.8 | 14        |
| 45 | Construction of the combinatorial library of <i>Rhizopus oryzae</i> lipase mutated in the lid domain by displaying on yeast cell surface. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 17, 167-173.   | 1.8 | 25        |
| 46 | Occurrence of N-methyl-l-aspartate in bivalves and its distribution compared with that of N-methyl-d-aspartate and d,l-aspartate. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2001, 130, 493-500.                 | 1.6 | 23        |
| 47 | Effect of the truncation of the C-terminal region of Kex2 endoprotease on processing of the recombinant <i>Rhizopus oryzae</i> lipase precursor in the co-expression system in yeast. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2000, 10, 233-240. | 1.8 | 6         |
| 48 | Extracellular production of active <i>Rhizopus oryzae</i> lipase by <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , 1998, 86, 164-168.  | 0.9 | 63        |
| 49 | Microbial Degradation of Persistent Organophosphorus Flame Retardants. , 0, , .   |     | 6         |