# Takeshi Zendo

List of Publications by Year
in descending order

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|---|---|---|---|
| 91<br>papers | 3,513<br>citations | 126907<br>33<br>h-index | 149698<br>56<br>g-index |
| 91<br>all docs | 91<br>docs citations | 91<br>times ranked | 2931<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Characterization of multiple bacteriocin-producing Lactiplantibacillus plantarum PUK6 isolated from misozuke-tofu. Food Science and Technology Research, 2022, 28, . | 0.6 | 2 |
| 2 | Identification and characterization of bacteriocin biosynthetic gene clusters found in multiple bacteriocins producing Lactiplantibacillus plantarum PUK6. Journal of Bioscience and Bioengineering, 2022, 133, 444-451. | 2.2 | 4 |
| 3 | Purification, amino acid sequence, and characterization of bacteriocin GA15, a novel class IIa bacteriocin secreted by Lactiplantibacillus plantarum GCNRC_GA15. International Journal of Biological Macromolecules, 2022, 213, 651-662. | 7.5 | 11 |
| 4 | Molecular characterization of the possible regulation of multiple bacteriocin production through a three-component regulatory system in Enterococcus faecium NKR-5-3. Journal of Bioscience and Bioengineering, 2021, 131, 131-138. | 2.2 | 3 |
| 5 | Diversity and dynamics of sourdough lactic acid bacteriota created by a slow food fermentation system. Journal of Bioscience and Bioengineering, 2021, 131, 333-340. | 2.2 | 28 |
| 6 | Transition and regulation mechanism of bacterial biota in Kishu saba-narezushi (mackerel narezushi) during its fermentation step. Journal of Bioscience and Bioengineering, 2021, 132, 606-612. | 2.2 | 8 |
| 7 | Mechanistic Insight into Yeast Bloom in a Lactic Acid Bacteria Relaying-Community in the Start of Sourdough Microbiota Evolution. Microbiology Spectrum, 2021, 9, e0066221. | 3.0 | 8 |
| 8 | Characterization of the Biosynthetic Gene Cluster of Enterocin F4-9, a Glycosylated Bacteriocin. Microorganisms, 2021, 9, 2276. | 3.6 | 3 |
| 9 | Generation and Characterization of Novel Bioactive Peptides from Fish and Beef Hydrolysates. Applied Sciences (Switzerland), 2021, 11, 10452. | 2.5 | 5 |
| 10 | Kunkecin A, a New Nisin Variant Bacteriocin Produced by the Fructophilic Lactic Acid Bacterium, Apilactobacillus kunkeei FF30-6 Isolated From Honey Bees. Frontiers in Microbiology, 2020, 11, 571903. | 3.5 | 32 |
| 11 | Processing and secretion of non-cognate bacteriocins by EnkT, an ABC transporter from a multiple-bacteriocin producer, Enterococcus faecium NKR-5-3. Journal of Bioscience and Bioengineering, 2020, 130, 596-603. | 2.2 | 2 |
| 12 | Impact of pH on succession of sourdough lactic acid bacteria communities and their fermentation properties. Bioscience of Microbiota, Food and Health, 2020, 39, 152-159. | 1.8 | 18 |
| 13 | Mosaic Cooperativity in Slow Polypeptide Topological Isomerization Revealed by Residue-Specific NMR Thermodynamic Analysis. Journal of Physical Chemistry Letters, 2020, 11, 1934-1939. | 4.6 | 8 |
| 14 | Nonâ€carbon loss longâ€term continuous lactic acid production from mixed sugars using thermophilic Enterococcus faecium QU 50. Biotechnology and Bioengineering, 2020, 117, 1673-1683. | 3.3 | 10 |
| 15 | Lowering effect of viable <i>Pediococcus pentosaceus</i> QU 19 on the rise in postprandial glucose. Bioscience of Microbiota, Food and Health, 2020, 39, 57-64. | 1.8 | 6 |
| 16 | Protection of gut microbiome from antibiotics: development of a vancomycin-specific adsorbent with high adsorption capacity. Bioscience of Microbiota, Food and Health, 2020, 39, 128-136. | 1.8 | 8 |
| 17 | Transcriptome profile of carbon catabolite repression in an efficient l-(+)-lactic acid-producing bacterium Enterococcus mundtii QU25 grown in media with combinations of cellobiose, xylose, and glucose. PLoS ONE, 2020, 15, e0242070. | 2.5 | 3 |
| 18 | Critical fermentation factors that influence the production of multiple bacteriocins of Enterococcus faecium NKR-5-3. Annals of Tropical Research, 2020, , 71-84. | 0.2 | 1 |

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|---|---|---|---|
| 19 | Constitutive expression of phosphoketolase, a key enzyme for metabolic shift from homo- to heterolactic fermentation in Enterococcus mundtii QU 25. Bioscience of Microbiota, Food and Health, 2019, 38, 111-114. | 1.8 | 1 |
| 20 | Relation between cellâ€bound exopolysaccharide production via plasmidâ€encoded genes and rugose colony morphology in the probiotic Lactobacillus brevis KB290. Animal Science Journal, 2019, 90, 1575-1580. | 1.4 | 3 |
| 21 | Complete Genome Sequence of Enterococcus faecium QU50, a Thermophilic Lactic Acid Bacterium Capable of Metabolizing Xylose. Microbiology Resource Announcements, 2019, 8, . | 0.6 | 0 |
| 22 | Plasmid-encoded glycosyltransferase operon is responsible for exopolysaccharide production, cell aggregation, and bile resistance in a probiotic strain, LactobacillusÂbrevis KB290. Journal of Bioscience and Bioengineering, 2019, 128, 391-397. | 2.2 | 24 |
| 23 | Dense tracking of the dynamics of the microbial community and chemicals constituents in spontaneous wheat sourdough during two months of backslopping. Journal of Bioscience and Bioengineering, 2019, 128, 170-176. | 2.2 | 17 |
| 24 | Functional analysis of biosynthetic genes for bacteriocins. Japanese Journal of Lactic Acid Bacteria, 2019, 30, 18-26. | 0.1 | 0 |
| 25 | Evaluation of leader peptides that affect the secretory ability of a multiple bacteriocin transporter, EnkT. Journal of Bioscience and Bioengineering, 2018, 126, 23-29. | 2.2 | 16 |
| 26 | ATPase activity regulation by leader peptide processing of ABC transporter maturation and secretion protein, NukT, for lantibiotic nukacin ISK-1. Applied Microbiology and Biotechnology, 2018, 102, 763-772. | 3.6 | 8 |
| 27 | The lantibiotic nukacin ISK-1 exists in an equilibrium between active and inactive lipid-II binding states. Communications Biology, 2018, 1, 150. | 4.4 | 24 |
| 28 | Circular and Leaderless Bacteriocins: Biosynthesis, Mode of Action, Applications, and Prospects. Frontiers in Microbiology, 2018, 9, 2085. | 3.5 | 109 |
| 29 | Greener L-lactic acid production through in situ extractive fermentation by an acid-tolerant Lactobacillus strain. Applied Microbiology and Biotechnology, 2018, 102, 6425-6435. | 3.6 | 15 |
| 30 | Free lactic acid production under acidic conditions by lactic acid bacteria strains: challenges and future prospects. Applied Microbiology and Biotechnology, 2018, 102, 5911-5924. | 3.6 | 73 |
| 31 | Characterisation of the action mechanism of a Lactococcus-specific bacteriocin, lactococcin Z. Journal of Bioscience and Bioengineering, 2018, 126, 603-610. | 2.2 | 23 |
| 32 | LiaRS reporter assay: A simple tool to identify lipid II binding moieties in lantibiotic nukacin ISK-1. Journal of Bioscience and Bioengineering, 2017, 123, 398-401. | 2.2 | 7 |
| 33 | Functional analysis of the biosynthetic gene cluster required for immunity and secretion of a novelLactococcus-specific bacteriocin, lactococcin Z. Journal of Applied Microbiology, 2017, 123, 1124-1132. | 3.1 | 19 |
| 34 | Stimulation of d- and l-lactate dehydrogenases transcriptional levels in presenceÂof diammonium hydrogen phosphate resulting to enhanced lactic acidÂproduction by Lactobacillus strain. Journal of Bioscience and Bioengineering, 2017, 124, 674-679. | 2.2 | 12 |
| 35 | <i>In vitro</i> synergistic activities of cefazolin and nisin A against mastitis pathogens. Journal of Veterinary Medical Science, 2017, 79, 1472-1479. | 0.9 | 20 |
| 36 | Mutations near the cleavage site of enterocin NKR-5-3B prepeptide reveal new insights into its biosynthesis. Microbiology (United Kingdom), 2017, 163, 431-441. | 1.8 | 18 |

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| 37 | Nutrition-adaptive control of multiple-bacteriocin production byWeissella hellenicaQU 13. Journal of Applied Microbiology, 2016, 120, 70-79. | 3.1 | 9 |
| 38 | Two-Component Systems Involved in Susceptibility to Nisin A in Streptococcus pyogenes. Applied and Environmental Microbiology, 2016, 82, 5930-5939. | 3.1 | 9 |
| 39 | LnqR, a TetR-family transcriptional regulator, positively regulates lacticin Q production inLactococcus lactisQU 5. FEMS Microbiology Letters, 2016, 363, fnw200. | 1.8 | 16 |
| 40 | Highly efficient <scp>l</scp>-lactic acid production from xylose in cell recycle continuous fermentation using Enterococcus mundtii QU 25. RSC Advances, 2016, 6, 17659-17668. | 3.6 | 40 |
| 41 | Functional Analysis of Genes Involved in the Biosynthesis of Enterocin NKR-5-3B, a Novel Circular Bacteriocin. Journal of Bacteriology, 2016, 198, 291-300. | 2.2 | 33 |
| 42 | l-Lactic acid production from glycerol coupled with acetic acid metabolism by Enterococcus faecalis without carbon loss. Journal of Bioscience and Bioengineering, 2016, 121, 89-95. | 2.2 | 43 |
| 43 | Enterococcus faecium QU 50: a novel thermophilic lactic acid bacterium for high-yield l-lactic acid production from xylose. FEMS Microbiology Letters, 2015, 362, 1-7. | 1.8 | 40 |
| 44 | Identification of Lactococcus-Specific Bacteriocins Produced by Lactococcal Isolates, and the Discovery of a Novel Bacteriocin, Lactococcin Z. Probiotics and Antimicrobial Proteins, 2015, 7, 222-231. | 3.9 | 12 |
| 45 | Identification, Characterization, and Three-Dimensional Structure of the Novel Circular Bacteriocin, Enterocin NKR-5-3B, from Enterococcus faecium. Biochemistry, 2015, 54, 4863-4876. | 2.5 | 62 |
| 46 | Enterocin F4-9, a Novel O -Linked Glycosylated Bacteriocin. Applied and Environmental Microbiology, 2015, 81, 4819-4826. | 3.1 | 57 |
| 47 | InÂvitro catalytic activity of N-terminal and C-terminal domains in NukM, theÂpost-translational modification enzyme of nukacin ISK-1. Journal of Bioscience and Bioengineering, 2015, 120, 624-629. | 2.2 | 17 |
| 48 | Transcriptional regulation of xylose utilization in Enterococcus mundtii QU 25. RSC Advances, 2015, 5, 93283-93292. | 3.6 | 4 |
| 49 | Fed-batch fermentation for enhanced lactic acid production from glucose/xylose mixture without carbon catabolite repression. Journal of Bioscience and Bioengineering, 2015, 119, 153-158. | 2.2 | 66 |
| 50 | Molecular characterization of the genes involved in the secretion and immunity of lactococcin Q, a two-peptide bacteriocin produced by Lactococcus lactis QU 4. Microbiology (United Kingdom), 2015, 161, 2069-2078. | 1.8 | 10 |
| 51 | Novel bacteriocins from lactic acid bacteria (LAB): various structures and applications. Microbial Cell Factories, 2014, 13, S3. | 4.0 | 363 |
| 52 | Biological function of a DUF95 superfamily protein involved in the biosynthesis ofÂa circular bacteriocin, leucocyclicin Q. Journal of Bioscience and Bioengineering, 2014, 117, 158-164. | 2.2 | 22 |
| 53 | <scp>l</scp>-(+)-Lactic acid production by co-fermentation of cellobiose and xylose without carbon catabolite repression using Enterococcus mundtii QU 25. RSC Advances, 2014, 4, 22013-22021. | 3.6 | 29 |
| 54 | Complete Genome Sequence of Enterococcus mundtii QU 25, an Efficient L-(+)-Lactic Acid-Producing Bacterium. DNA Research, 2014, 21, 369-377. | 3.4 | 22 |

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| 55 | Gene Cluster Responsible for Secretion of and Immunity to Multiple Bacteriocins, the NKR-5-3 Enterocins. Applied and Environmental Microbiology, 2014, 80, 6647-6655. | 3.1 | 23 |
| 56 | Screening and applications of bacteriocins from lactic acid bacteria . Japanese Journal of Lactic Acid Bacteria, 2014, 25, 24-33. | 0.1 | 1 |
| 57 | Improved lactic acid productivity by an open repeated batch fermentation system using Enterococcus mundtii QU 25. RSC Advances, 2013, 3, 8437. | 3.6 | 54 |
| 58 | Screening and Characterization of Novel Bacteriocins from Lactic Acid Bacteria. Bioscience, Biotechnology and Biochemistry, 2013, 77, 893-899. | 1.3 | 66 |
| 59 | Bifunctional Gene Cluster lnqBCDEF Mediates Bacteriocin Production and Immunity with Differential Genetic Requirements. Applied and Environmental Microbiology, 2013, 79, 2446-2449. | 3.1 | 22 |
| 60 | Identification of the genes involved in the secretion and self-immunity of lacticin Q, an unmodified leaderless bacteriocin from Lactococcus lactis QU 5. Microbiology (United Kingdom), 2012, 158, 2927-2935. | 1.8 | 25 |
| 61 | Isolation and Characterization of Enterocin W, a Novel Two-Peptide Lantibiotic Produced by Enterococcus faecalis NKR-4-1. Applied and Environmental Microbiology, 2012, 78, 900-903. | 3.1 | 45 |
| 62 | Identification of Enterocin NKR-5-3C, a Novel Class IIa Bacteriocin Produced by a Multiple Bacteriocin Producer, <i>Enterococcus faecium</i> NKR-5-3. Bioscience, Biotechnology and Biochemistry, 2012, 76, 1245-1247. | 1.3 | 27 |
| 63 | Garvieacin Q, a Novel Class II Bacteriocin from Lactococcus garvieae BCC 43578. Applied and Environmental Microbiology, 2012, 78, 1619-1623. | 3.1 | 59 |
| 64 | Antimicrobial mechanism of lantibiotics. Biochemical Society Transactions, 2012, 40, 1528-1533. | 3.4 | 95 |
| 65 | Monitoring of the multiple bacteriocin production by Enterococcus faecium NKR-5-3 through a developed liquid chromatography and mass spectrometry-based quantification system. Journal of Bioscience and Bioengineering, 2012, 114, 490-496. | 2.2 | 33 |
| 66 | Purification and Characterization of Multiple Bacteriocins and an Inducing Peptide Produced byEnterococcus faeciumNKR-5-3 from Thai Fermented Fish. Bioscience, Biotechnology and Biochemistry, 2012, 76, 947-953. | 1.3 | 65 |
| 67 | Anti-listeria activity of Pediococcus pentosaceus BCC 3772 and application as starter culture for Nham, a traditional fermented pork sausage. Food Control, 2012, 25, 190-196. | 5.5 | 67 |
| 68 | Efficient Homofermentative <scp>l</scp> -(+)-Lactic Acid Production from Xylose by a Novel Lactic Acid Bacterium, Enterococcus mundtii QU 25. Applied and Environmental Microbiology, 2011, 77, 1892-1895. | 3.1 | 75 |
| 69 | Class IId or Linear and Non-Pediocin-Like Bacteriocins. , 2011, , 237-252. | | 16 |
| 70 | Purification, characterization and in vitro cytotoxicity of the bacteriocin from Pediococcus acidilactici K2a2-3 against human colon adenocarcinoma (HT29) and human cervical carcinoma (HeLa) cells. World Journal of Microbiology and Biotechnology, 2011, 27, 975-980. | 3.6 | 72 |
| 71 | Isolation and characterisation of lactic acid bacterium for effective fermentation of cellobiose into optically pure homo l-(+)-lactic acid. Applied Microbiology and Biotechnology, 2011, 89, 1039-1049. | 3.6 | 61 |
| 72 | Continuous d-lactic acid production by a novelthermotolerant Lactobacillus delbrueckii subsp. lactis QU 41. Applied Microbiology and Biotechnology, 2011, 89, 1741-1750. | 3.6 | 102 |

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| 73 | Lantibiotic Transporter Requires Cooperative Functioning of the Peptidase Domain and the ATP Binding Domain. Journal of Biological Chemistry, 2011, 286, 11163-11169. | 3.4 | 27 |
| 74 | Identification and Characterization of Leucocyclicin Q, a Novel Cyclic Bacteriocin Produced by Leuconostoc mesenteroides TK41401. Applied and Environmental Microbiology, 2011, 77, 8164-8170. | 3.1 | 90 |
| 75 | Lacticin Q-Mediated Selective Toxicity Depending on Physicochemical Features of Membrane Components. Antimicrobial Agents and Chemotherapy, 2011, 55, 2446-2450. | 3.2 | 27 |
| 76 | Lactococcal membrane-permeabilizing antimicrobial peptides. Applied Microbiology and Biotechnology, 2010, 88, 1-9. | 3.6 | 43 |
| 77 | Enterocin X, a Novel Two-Peptide Bacteriocin from Enterococcus faecium KU-B5, Has an Antibacterial Spectrum Entirely Different from Those of Its Component Peptides. Applied and Environmental Microbiology, 2010, 76, 4542-4545. | 3.1 | 62 |
| 78 | Optimization of fermentation conditions for high L-lactic acid production from cellobiose by entercoccus mundtii QU 25: Impact of pH control and temperature on cell growth and changes in metabolites. , 2010, , . | | 0 |
| 79 | Effect of a Negatively Charged Lipid on Membrane-Lacticin Q Interaction and Resulting Pore Formation. Bioscience, Biotechnology and Biochemistry, 2010, 74, 218-221. | 1.3 | 11 |
| 80 | Lacticin Q, a Lactococcal Bacteriocin, Causes High-Level Membrane Permeability in the Absence of Specific Receptors. Applied and Environmental Microbiology, 2009, 75, 538-541. | 3.1 | 56 |
| 81 | Identification and Characterization of Lactocyclicin Q, a Novel Cyclic Bacteriocin Produced by Lactococcus sp. Strain QU 12. Applied and Environmental Microbiology, 2009, 75, 1552-1558. | 3.1 | 112 |
| 82 | Nukacin ISK-1, a Bacteriostatic Lantibiotic. Antimicrobial Agents and Chemotherapy, 2009, 53, 3595-3598. | 3.2 | 46 |
| 83 | Peptide-Lipid Huge Toroidal Pore, a New Antimicrobial Mechanism Mediated by a Lactococcal Bacteriocin, Lacticin Q. Antimicrobial Agents and Chemotherapy, 2009, 53, 3211-3217. | 3.2 | 114 |
| 84 | Complete Covalent Structure of Nisin Q, New Natural Nisin Variant, Containing Post-Translationally Modified Amino Acids. Bioscience, Biotechnology and Biochemistry, 2008, 72, 1750-1755. | 1.3 | 20 |
| 85 | Structural Analysis and Characterization of Lacticin Q, a Novel Bacteriocin Belonging to a New Family of Unmodified Bacteriocins of Gram-Positive Bacteria. Applied and Environmental Microbiology, 2007, 73, 2871-2877. | 3.1 | 141 |
| 86 | Characterization and Structure Analysis of a Novel Bacteriocin, Lacticin Z, Produced byLactococcus lactisQU 14. Bioscience, Biotechnology and Biochemistry, 2007, 71, 1984-1992. | 1.3 | 62 |
| 87 | Lactococcin Q, a Novel Two-Peptide Bacteriocin Produced by Lactococcus lactis QU 4. Applied and Environmental Microbiology, 2006, 72, 3383-3389. | 3.1 | 86 |
| 88 | Lanthionine introduction into nukacin ISK-1 prepeptide by co-expression with modification enzyme NukM in Escherichia coli. Biochemical and Biophysical Research Communications, 2005, 336, 507-513. | 2.1 | 60 |
| 89 | Identification of the Lantibiotic Nisin Q, a New Natural Nisin Variant Produced byLactococcus lactis61-14 Isolated from a River in Japan. Bioscience, Biotechnology and Biochemistry, 2003, 67, 1616-1619. | 1.3 | 139 |
| 90 | Biochemical and genetic evidence for production of enterocins A and B by Enterococcus faecium WHE 81. International Journal of Food Microbiology, 2001, 70, 291-301. | 4.7 | 106 |

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| 91 | Improved Purification and Structural Determination of Enterocin B from <I>Enterococcus faecium</I> WHE 81. Japanese Journal of Lactic Acid Bacteria, 2000, 10, 103-109. | 0.1 | 0 |