

Hirofumi Hara

List of Publications by Year in descending order

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108
papers

4,547
citations

126907

33
h-index

106344

65
g-index

111
all docs

111
docs citations

111
times ranked

5118
citing authors

#	ARTICLE	IF	CITATIONS
1	The complete genome of <i>Rhodococcus</i> sp. RHA1 provides insights into a catabolic powerhouse. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15582-15587.	7.1	586
2	Genome Sequence of the Streptomycin-Producing Microorganism <i>Streptomyces griseus</i> IFO 13350. Journal of Bacteriology, 2008, 190, 4050-4060.	2.2	534
3	A gene cluster encoding cholesterol catabolism in a soil actinomycete provides insight into <i>Mycobacterium tuberculosis</i> survival in macrophages. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1947-1952.	7.1	480
4	Short-Chain Fatty Acids Suppress Cholesterol Synthesis in Rat Liver and Intestine. Journal of Nutrition, 1999, 129, 942-948.	2.9	247
5	Environmentally sustainable applications of agro-based spent mushroom substrate (SMS): an overview. Journal of Material Cycles and Waste Management, 2018, 20, 1383-1396.	3.0	122
6	Cytotoxicity assay of plant-mediated synthesized iron oxide nanoparticles using <i>Juglans regia</i> green husk extract. Arabian Journal of Chemistry, 2020, 13, 2011-2023.	4.9	111
7	Genetic and Biochemical Characterization of a 2-Pyrone-4,6-Dicarboxylic Acid Hydrolase Involved in the Protocatechuate 4,5-Cleavage Pathway of <i>Sphingomonas paucimobilis</i> SYK-6. Journal of Bacteriology, 1999, 181, 55-62.	2.2	104
8	Characterization of the Terephthalate Degradation Genes of <i>Comamonas</i> sp. Strain E6. Applied and Environmental Microbiology, 2006, 72, 1825-1832.	3.1	94
9	Genome-wide Distribution of AdpA, a Global Regulator for Secondary Metabolism and Morphological Differentiation in <i>Streptomyces</i> , Revealed the Extent and Complexity of the AdpA Regulatory Network. DNA Research, 2012, 19, 259-274.	3.4	89
10	Transcriptomic Assessment of Isozymes in the Biphenyl Pathway of <i>Rhodococcus</i> sp. Strain RHA1. Applied and Environmental Microbiology, 2006, 72, 6183-6193.	3.1	83
11	Transcriptomic Analysis Reveals a Bifurcated Terephthalate Degradation Pathway in <i>Rhodococcus</i> sp. Strain RHA1. Journal of Bacteriology, 2007, 189, 1641-1647.	2.2	76
12	Involvement of a Novel ABC Transporter and Monoalkyl Phthalate Ester Hydrolase in Phthalate Ester Catabolism by <i>Rhodococcus jostii</i> RHA1. Applied and Environmental Microbiology, 2010, 76, 1516-1523.	3.1	73
13	The 4-Oxalomesaconate Hydratase Gene, Involved in the Protocatechuate 4,5-Cleavage Pathway, Is Essential to Vanillate and Syringate Degradation in <i>Sphingomonas paucimobilis</i> SYK-6. Journal of Bacteriology, 2000, 182, 6950-6957.	2.2	71
14	Delivery, impact and approach of household food waste reduction campaigns. Journal of Cleaner Production, 2020, 246, 118969.	9.3	70
15	Increases in calcium absorption with ingestion of soluble dietary fibre, guar-gum hydrolysate, depend on the caecum in partially nephrectomized and normal rats. British Journal of Nutrition, 1996, 76, 773-784.	2.3	67
16	Response of the <i>Pseudomonas</i> host chromosomal transcriptome to carriage of the IncP α 7 plasmid pCAR1. Environmental Microbiology, 2010, 12, 1413-1426.	3.8	62
17	Prevalence and antibiotic resistance patterns of <i>Vibrio parahaemolyticus</i> isolated from different types of seafood in Selangor, Malaysia. Saudi Journal of Biological Sciences, 2020, 27, 1602-1608.	3.8	62
18	Co-composting of palm empty fruit bunch and palm oil mill effluent: Microbial diversity and potential mitigation of greenhouse gas emission. Journal of Cleaner Production, 2017, 146, 94-100.	9.3	59

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19	Fermentation products of sugar-beet fiber by cecal bacteria lower plasma cholesterol concentration in rats. <i>Journal of Nutrition</i> , 1998, 128, 688-93.	2.9	59
20	Complete Genome Sequence of <i>Sphingobium</i> sp. Strain SYK-6, a Degradere of Lignin-Derived Biaryls and Monoaryls. <i>Journal of Bacteriology</i> , 2012, 194, 534-535.	2.2	58
21	Genetic and Biochemical Characterization of 4-Carboxy-2-Hydroxymuconate-6-Semialdehyde Dehydrogenase and Its Role in the Protocatechuate 4,5-Cleavage Pathway in <i>Sphingomonas paucimobilis</i> SYK-6. <i>Journal of Bacteriology</i> , 2000, 182, 6651-6658.	2.2	57
22	Characterization of <i>ligV</i> Essential for Catabolism of Vanillin by <i>Sphingomonas paucimobilis</i> SYK-6. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 2487-2492.	1.3	57
23	Contribution of the Cecum and Colon to Zinc Absorption in Rats. <i>Journal of Nutrition</i> , 2000, 130, 83-89.	2.9	56
24	Enzymatic and genetic characterization of lignin depolymerization by <i>Streptomyces</i> sp. S6 isolated from a tropical environment. <i>Scientific Reports</i> , 2020, 10, 7813.	3.3	56
25	Characterization of the 4-Carboxy-4-Hydroxy-2-Oxoadipate Aldolase Gene and Operon Structure of the Protocatechuate 4,5-Cleavage Pathway Genes in <i>Sphingomonas paucimobilis</i> SYK-6. <i>Journal of Bacteriology</i> , 2003, 185, 41-50.	2.2	52
26	DNA microarray analysis of global gene regulation by A-factor in <i>Streptomyces griseus</i> . <i>Microbiology (United Kingdom)</i> , 2009, 155, 2197-2210.	1.8	47
27	Multifunctional sensing ability of a new Pt/Zn-based luminescent coordination polymer. <i>Dalton Transactions</i> , 2010, 39, 3400.	3.3	45
28	Introduction of chemically labile substructures into <i>Arabidopsis</i> lignin through the use of LigD, the Cl ⁻ dehydrogenase from <i>Sphingobium</i> sp. strain SYK-6. <i>Plant Biotechnology Journal</i> , 2015, 13, 821-832.	8.3	45
29	An Eco-Friendly Means of Biosynthesis of Superparamagnetic Magnetite Nanoparticles via Marine Polymer. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 1047-1052.	2.0	44
30	Cytotoxicity assay of biosynthesis gold nanoparticles mediated by walnut (<i>Juglans regia</i>) green husk extract. <i>Journal of Molecular Structure</i> , 2018, 1151, 97-105.	3.6	44
31	Ingestion of Guar Gum Hydrolysate, a Soluble Fiber, Increases Calcium Absorption in Totally Gastrectomized Rats. <i>Journal of Nutrition</i> , 1999, 129, 39-45.	2.9	39
32	Vapour-adsorption and chromic behaviours of luminescent coordination polymers composed of a Pt(II)-diimine metalloligand and alkaline-earth metal ions. <i>Dalton Transactions</i> , 2011, 40, 8012.	3.3	39
33	Modulation of primary cell function of host <i>Pseudomonas</i> bacteria by the conjugative plasmid pCAR1. <i>Environmental Microbiology</i> , 2015, 17, 134-155.	3.8	38
34	Dynamic changes in the extracellular proteome caused by absence of a pleiotropic regulator AdpA in <i>Streptomyces griseus</i> . <i>Molecular Microbiology</i> , 2009, 73, 898-912.	2.5	37
35	A TonB-dependent receptor constitutes the outer membrane transport system for a lignin-derived aromatic compound. <i>Communications Biology</i> , 2019, 2, 432.	4.4	35
36	Discovery of pinorensinol reductase genes in sphingomonads. <i>Enzyme and Microbial Technology</i> , 2013, 52, 38-43.	3.2	34

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37	Regulatory System of the Protocatechuate 4,5-Cleavage Pathway Genes Essential for Lignin Downstream Catabolism. <i>Journal of Bacteriology</i> , 2010, 192, 3394-3405.	2.2	32
38	A Green Approach for the Synthesis of Silver Nanoparticles Using Ultrasonic Radiation's Times in Sodium Alginate Media: Characterization and Antibacterial Evaluation. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-11.	2.7	32
39	Evaluation of fermentability of acid-treated maize husk by rat caecal bacteria in vivo and in vitro. <i>British Journal of Nutrition</i> , 1994, 71, 719-729.	2.3	30
40	Isolation and Characterization of Six <i>Vibrio parahaemolyticus</i> Lytic Bacteriophages From Seafood Samples. <i>Frontiers in Microbiology</i> , 2021, 12, 616548.	3.5	30
41	Cultivation of oyster mushroom (<i>Pleurotus ostreatus</i>) on fermented moso bamboo sawdust. <i>Journal of King Saud University - Science</i> , 2019, 31, 490-494.	3.5	29
42	Synthesis of silver nanoparticles via green method using ultrasound irradiation in seaweed <i>Kappaphycus alvarezii</i> media. <i>Research on Chemical Intermediates</i> , 2016, 42, 7991-8004.	2.7	27
43	Conversion and characterization of Bio-Coke from abundant biomass waste in Malaysia. <i>Renewable Energy</i> , 2020, 162, 1017-1025.	8.9	27
44	Characterization of the catabolic pathway for a phenylcoumaran-type lignin-derived biaryl in <i>Sphingobium</i> sp. strain SYK-6. <i>Biodegradation</i> , 2014, 25, 735-745.	3.0	25
45	Importance of Soil Temperature for the Growth of Temperate Crops under a Tropical Climate and Functional Role of Soil Microbial Diversity. <i>Microbes and Environments</i> , 2018, 33, 144-150.	1.6	24
46	Identification and Gene Disruption of Small Noncoding RNAs in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , 2009, 191, 4896-4904.	2.2	23
47	Systematic structural control of multichromic platinum(II)-diimine complexes ranging from ionic solid to coordination polymer. <i>Dalton Transactions</i> , 2012, 41, 1878-1888.	3.3	22
48	<i>In vitro</i> reconstitution of the catabolic reactions catalyzed by PcaHG, PcaB, and PcaL: the protocatechuate branch of the β -ketoacid pathway in <i>Rhodococcus jostii</i> RHA1. <i>Bioscience, Biotechnology and Biochemistry</i> , 2015, 79, 830-835.	1.3	21
49	Membrane-Associated Glucose-Methanol-Choline Oxidoreductase Family Enzymes PhcC and PhcD Are Essential for Enantioselective Catabolism of Dehydrodiconiferyl Alcohol. <i>Applied and Environmental Microbiology</i> , 2015, 81, 8022-8036.	3.1	20
50	Removal efficiency of Gram-positive and Gram-negative bacteria using a natural coagulant during coagulation, flocculation, and sedimentation processes. <i>Water Science and Technology</i> , 2019, 80, 1787-1795.	2.5	20
51	Induction of pancreatic growth and proteases by feeding a high amino acid diet does not depend on cholecystokinin in rats. <i>Journal of Nutrition</i> , 1995, 125, 1143-9.	2.9	20
52	Enhancement of astaxanthin accumulation using black light in <i>Coelastrum</i> and <i>Monoraphidium</i> isolated from Malaysia. <i>Scientific Reports</i> , 2021, 11, 11708.	3.3	18
53	Microbial Diversity in Decaying Oil Palm Empty Fruit Bunches (OPEFB) and Isolation of Lignin-degrading Bacteria from a Tropical Environment. <i>Microbes and Environments</i> , 2019, 34, 161-168.	1.6	17
54	A Protein Less Sensitive to Trypsin, Guanidinated Casein, Is a Potent Stimulator of Exocrine Pancreas in Rats. <i>Experimental Biology and Medicine</i> , 1995, 210, 278-284.	2.4	15

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55	Depolymerization of lignocellulose of oil palm empty fruit bunch by thermophilic microorganisms from tropical climate. <i>Bioresource Technology</i> , 2019, 279, 174-180.	9.6	15
56	Enhancement of Pancreatic Secretion by Dietary Protein in Rats with Chronic Diversion of Bile-Pancreatic Juice from the Proximal Small Intestine. <i>Pancreas</i> , 1994, 9, 275-279.	1.1	14
57	Characterization of Musty Odor-Producing Actinomycetes from Tropics and Effects of Temperature on the Production of Musty Odor Compounds. <i>Microbes and Environments</i> , 2017, 32, 352-357.	1.6	13
58	Artificial Fiber Complexes Composed of Cellulose and Guar Gum or Psyllium May Be Better Sources of Soluble Fiber for Rats than Comparable Fiber Mixtures. <i>Journal of Nutrition</i> , 1994, 124, 1238-1247.	2.9	12
59	Production of Bio-Coke from spent mushroom substrate for a sustainable solid fuel. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4095-4104.	4.6	12
60	Lack of Response to Dietary Protein in Pancreatic Secretion by Chronic Deprivation of Jejunal Chyme in Rats. <i>Scandinavian Journal of Gastroenterology</i> , 1996, 31, 1132-1135.	1.5	11
61	Gold Nanoparticles Biosynthesis: A Simple Route for Control Size Using Waste Peel Extract. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 954-957.	2.0	11
62	Improvement and screening of astaxanthin producing mutants of newly isolated <i>Coelastrum</i> sp. using ethyl methane sulfonate induced mutagenesis technique. <i>Biotechnology Reports (Amsterdam)</i> , 2020, 10, 100000.	1.0	10
63	Successful expression of a novel bacterial gene for pinoresinol reductase and its effect on lignan biosynthesis in transgenic <i>Arabidopsis thaliana</i> . <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 8165-8177.	3.6	10
64	Identification of novel extracellular protein for PCB/biphenyl metabolism in <i>Rhodococcus jostii</i> RHA1. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 1012-1019.	1.3	10
65	Extraction and intensive conversion of lignocellulose from oil palm solid waste into lignin monomer by the combination of hydrothermal pretreatment and biological treatment. <i>Bioresource Technology Reports</i> , 2020, 11, 100456.	2.7	10
66	Molecular characterization of multi-drug resistant <i>Escherichia coli</i> isolates from tropical environments in Southeast Asia. <i>Journal of General and Applied Microbiology</i> , 2018, 64, 284-292.	0.7	9
67	Phenotypic and genetic characterization of multidrug-resistant <i>Staphylococcus aureus</i> in the tropics of Southeast Asia. <i>Microbiology (United Kingdom)</i> , 2016, 162, 2064-2074.	1.8	9
68	Production of \pm -linolenic Acid by an Oleaginous Green Algae <i>Acutodesmus obliquus</i> Isolated from Malaysia. <i>Journal of Pure and Applied Microbiology</i> , 2019, 13, 1297-1306.	0.9	9
69	Artificial Neural Network (ANN) Modelling for Biogas Production in Pre-Commercialized Integrated Anaerobic-Aerobic Bioreactors (IAAB). <i>Water (Switzerland)</i> , 2022, 14, 1410.	2.7	9
70	Abundance of sulfur-degrading bacteria in a benthic bacterial community of shallow sea sediment in the off-Terengganu coast of the South China Sea. <i>MicrobiologyOpen</i> , 2016, 5, 967-978.	3.0	8
71	The regulatory mechanism of 2,4,6-trichlorophenol catabolic operon expression by HadR in <i>Ralstonia pickettii</i> DTP0602. <i>Microbiology (United Kingdom)</i> , 2013, 159, 665-677.	1.8	7
72	Ingestion of guar-gum hydrolysate partially restores calcium absorption in the large intestine lowered by suppression of gastric acid secretion in rats. <i>British Journal of Nutrition</i> , 1999, 81, 315-21.	2.3	7

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73	Bile-Pancreatic Juice-Independent Increases in Pancreatic Proteases and Intestinal Cholecystokinin by Dietary Protein in Rats. <i>Experimental Biology and Medicine</i> , 1998, 217, 173-179.	2.4	6
74	Elucidation and Characterization of New Chlorinated By-Products after Electrochemical Degradation of Hydrochlorothiazide Using Graphite-Poly Vinyl Chloride Electrode. <i>Catalysts</i> , 2018, 8, 540.	3.5	6
75	Lipid production enhancement in tropically isolated microalgae by azide and its effect on fatty acid composition. <i>Journal of Applied Phycology</i> , 2018, 30, 3063-3073.	2.8	6
76	Whole gene transcriptomic analysis of PCB/biphenyl degrading <i>Rhodococcus jostii</i> RHA1. <i>Journal of General and Applied Microbiology</i> , 2019, 65, 173-179.	0.7	6
77	Enhanced astaxanthin production by oxidative stress using methyl viologen as a reactive oxygen species (ROS) reagent in green microalgae <i>Coelastrum</i> sp.. <i>Indonesian Journal of Biotechnology</i> , 2020, 25, 95.	0.4	6
78	Development of Enokitake (<i>Flammulina velutipes</i>) mushroom cultivation technology using spent mushroom substrate anaerobic digestion residue. <i>Environmental Technology and Innovation</i> , 2021, 24, 102046.	6.1	6
79	Evaluation of Pretreatment Effect for Spent Mushroom Substrate on Methane Production. <i>Journal of Water and Environment Technology</i> , 2019, 17, 174-179.	0.7	5
80	Utilization of distillation waste of sweet potato Shochu lees for <i>Lentinula edodes</i> cultivation. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 336-344.	3.0	5
81	The effectiveness of biological pretreatment of oil palm empty fruit bunch on its conversion into Bio-Coke. <i>Bioresource Technology Reports</i> , 2021, 15, 100765.	2.7	5
82	CK-independent increases in pancreatic secretion induced by dietary protein in chronic BPJ-diverted rats. <i>American Journal of Physiology - Renal Physiology</i> , 1996, 271, G501-G508.	3.4	4
83	Green synthesis of silver nanoparticles in biopolymer stabilizer and their application as antibacterial efficacy. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
84	Recombinant protein expression of <i>Moringa oleifera</i> lectin in methylotrophic yeast as active coagulant for sustainable high turbid water treatment. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1642-1649.	1.3	4
85	The use of soil cooling for growing temperate crops under tropical climate. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 1449-1456.	3.5	4
86	Isolation and characterization of acid-tolerant <i>Stichococcus</i> -like Microalga (<i>Tetrastichococcus</i>) Tj ETQq0 0 0 rgBT ₂ /Overlock 10 Tf 50 2	2.8	4
87	Gastric Acid-Independent Enhancement of Exocrine Pancreatic Secretion by Dietary Protein in Chronic Bile-Pancreatic Juice Diverted Rats. <i>Pancreas</i> , 1995, 11, 173-178.	1.1	3
88	Comparing GHG Emissions from Drained Oil Palm and Recovering Tropical Peatland Forests in Malaysia. <i>Water (Switzerland)</i> , 2021, 13, 3372.	2.7	3
89	A new and simple method for measuring in situ field-saturated hydraulic conductivity using a falling-head single cylinder. <i>Paddy and Water Environment</i> , 2018, 16, 81-87.	1.8	2
90	Elucidation of prazosin biodegradation by isolated <i>Bacillus</i> spp. from the tropical environment. <i>Journal of General and Applied Microbiology</i> , 2020, 66, 8-14.	0.7	2

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91	Draft Genome Sequence of Lignin-Degrading <i>Agrobacterium</i> sp. Strain S2, Isolated from a Decaying Oil Palm Empty Fruit Bunch. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	2
92	Role of Gastric Digestion in the Absorption of Slowly Digestible Peptide, Oligo-L-Methionine, in Rats. <i>Experimental Biology and Medicine</i> , 1993, 202, 315-319.	2.4	1
93	Changes in Messenger RNA of Pancreatic Enzymes and Intestinal Cholecystokinin after a 7-Day Bile-pancreatic Juice Diversion from the Proximal Small Intestine in Rats. <i>Bioscience, Biotechnology and Biochemistry</i> , 1997, 61, 1002-1006.	1.3	1
94	Colonic Ulcers in a Patient Taking Low-Dose Aspirin. <i>Digestion</i> , 2009, 79, 251-251.	2.3	1
95	Dissecting Intramural Hematoma of the Esophagus in a Kendo Player Taking Low-Dose Aspirin. <i>Internal Medicine</i> , 2009, 48, 2153-2154.	0.7	1
96	ã,²ãfŽãfæf...ã±ã,âÿççã«ã→ãÿæ”¾ç·šèÇç¾ã@è»Çã†™ã^ã¾¾¾;æ©ÿæšç”ç©¶. <i>Kagaku To Seibutsu</i> , 2011, 49, 234-242.	1	1
97	SIMULATION STUDY ON ENHANCING HYDROGEN PRODUCTION IN AN OCEAN THERMAL ENERGY (OTEC) SYSTEM UTILIZING A SOLAR COLLECTOR. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 77, .	0.4	1
98	Chemical-Free Extraction and Identification of Sugar Components from Oil Palm Biomass Through a Hydrothermal Process. <i>Waste and Biomass Valorization</i> , 2020, 12, 4253.	3.4	1
99	Complete Genome Sequence of Lignin-Degrading <i>Streptomyces</i> sp. Strain S6, Isolated from an Oil Palm Plantation in Malaysia. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	1
100	Bulk Chemical and Optical Spectroscopy Characterisations of Dissolved Organic Matter Extracted from the Tropical Coastal Sediment. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 997.	2.6	1
101	DESIGN OPTIMIZATION OF POWER GENERATION AND DESALINATION APPLICATION IN MALAYSIA UTILIZING OCEAN THERMAL ENERGY. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 77, .	0.4	0
102	Draft Genome Sequence of the Prazosin-Degrading <i>Bacillus</i> sp. Strain PR5, Isolated from a River Receiving Hospital and Urban Wastewater in Malaysia. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	0
103	Draft Genome Sequences of Three Multidrug-Resistant <i>Staphylococcus</i> spp. Isolated from Hospital Wastewater in Malaysia. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	0
104	O602 Responses of <i>Pseudomonas</i> Hosts to Carriage of a Mobile Genetic Element. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSM</i> , 2010, 2009.22, 87.	0.0	0
105	Development of Renewable Resources Based on Biomass Waste in Malaysia. <i>Journal of Smart Processing</i> , 2019, 8, 243-252.	0.1	0
106	Lack of response to dietary protein in pancreatic secretion by chronic deprivation of jejunal chyme in rats. <i>Scandinavian Journal of Gastroenterology</i> , 1996, 31, 1125-31.	1.5	0
107	Isolation and characterization of Lignin-derived monomer degraders under acidic conditions from tropical peatland. <i>Journal of General and Applied Microbiology</i> , 2022, , .	0.7	0
108	Draft Genome Sequences of Multidrug-Resistant <i>Escherichia coli</i> Strains Isolated from River Water in Malaysia. <i>Microbiology Resource Announcements</i> , 0, , .	0.6	0