

# Yasuo Ohnishi

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

157 papers	5,116 citations	38 h-index	66 g-index
172 ext. papers	5,823 ext. citations	4.7 avg, IF	5.45 L-index

#	Paper	IF	Citations
157	Genome sequence of the streptomycin-producing microorganism <i>Streptomyces griseus</i> IFO 13350. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 4050-60	3.5	462
156	A new pathway for polyketide synthesis in microorganisms. <i>Nature</i> , <b>1999</b> , 400, 897-9	50.4	239
155	The A-factor regulatory cascade leading to streptomycin biosynthesis in <i>Streptomyces griseus</i> : identification of a target gene of the A-factor receptor. <i>Molecular Microbiology</i> , <b>1999</b> , 34, 102-11	4.1	200
154	Production of plant-specific flavanones by <i>Escherichia coli</i> containing an artificial gene cluster. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 2699-706	4.8	188
153	AdpA, a central transcriptional regulator in the A-factor regulatory cascade that leads to morphological development and secondary metabolism in <i>Streptomyces griseus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2005</b> , 69, 431-9	2.1	186
152	Biosynthesis of gamma-butyrolactone autoregulators that switch on secondary metabolism and morphological development in <i>Streptomyces</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 2378-83	11.5	165
151	Efficient production of (2S)-flavanones by <i>Escherichia coli</i> containing an artificial biosynthetic gene cluster. <i>Applied Microbiology and Biotechnology</i> , <b>2005</b> , 68, 498-504	5.7	141
150	Combinatorial biosynthesis of flavones and flavonols in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 71, 53-8	5.7	119
149	An A-factor-dependent extracytoplasmic function sigma factor (sigma(AdsA)) that is essential for morphological development in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 4596-605	3.5	92
148	Crystal structure of a gamma-butyrolactone autoregulator receptor protein in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Molecular Biology</i> , <b>2004</b> , 336, 409-19	6.5	86
147	DNA-binding specificity of AdpA, a transcriptional activator in the A-factor regulatory cascade in <i>Streptomyces griseus</i> . <i>Molecular Microbiology</i> , <b>2004</b> , 53, 555-72	4.1	83
146	Biosynthesis of hexahydroxyperylenequinone melanin via oxidative aryl coupling by cytochrome P-450 in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 8149-55	3.5	75
145	AfsR recruits RNA polymerase to the afsS promoter: a model for transcriptional activation by SARPs. <i>Journal of Molecular Biology</i> , <b>2007</b> , 369, 322-33	6.5	74
144	Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in <i>Streptomyces griseus</i> . <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 4628-35	5.4	73
143	Control by A-factor of a metalloendopeptidase gene involved in aerial mycelium formation in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 6016-25	3.5	71
142	Transcriptional switch on of ssgA by A-factor, which is essential for spore septum formation in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 1273-83	3.5	69
141	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. <i>DNA Research</i> , <b>2012</b> , 19, 259-73	4.5	68

140	Evolution of gamma-butyrolactone synthases and receptors in Streptomyces. <i>Environmental Microbiology</i> , <b>2007</b> , 9, 1986-94	5.2	68
139	Heterologous production of flavanones in Escherichia coli: potential for combinatorial biosynthesis of flavonoids in bacteria. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2003</b> , 30, 456-61	4.2	65
138	Cinnamate:coenzyme A ligase from the filamentous bacterium streptomyces coelicolor A3(2). <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 20-7	3.5	65
137	AmfS, an extracellular peptidic morphogen in Streptomyces griseus. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 1488-92	3.5	65
136	Transcriptional control by A-factor of strR, the pathway-specific transcriptional activator for streptomycin biosynthesis in Streptomyces griseus. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 5595-604	3.5	58
135	Characterization of a novel sesquiterpene cyclase involved in (+)-caryolan-1-ol biosynthesis in Streptomyces griseus. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 27980-7	5.4	55
134	Genome sequence of Kitasatospora setae NBRC 14216T: an evolutionary snapshot of the family Streptomycetaceae. <i>DNA Research</i> , <b>2010</b> , 17, 393-406	4.5	55
133	Novel benzene ring biosynthesis from C(3) and C(4) primary metabolites by two enzymes. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 36944-51	5.4	55
132	ATP-binding cassette transport system involved in regulation of morphological differentiation in response to glucose in Streptomyces griseus. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 91-103	3.5	54
131	Unprecedented Cyclization Catalyzed by a Cytochrome P450 in Benzastatin Biosynthesis. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 6631-6639	16.4	51
130	Identification of the first bacterial monoterpene cyclase, a 1,8-cineole synthase, that catalyzes the direct conversion of geranyl diphosphate. <i>ChemBioChem</i> , <b>2011</b> , 12, 1988-91	3.8	50
129	A nitrous acid biosynthetic pathway for diazo group formation in bacteria. <i>Nature Chemical Biology</i> , <b>2016</b> , 12, 73-5	11.7	49
128	Strict regulation of morphological differentiation and secondary metabolism by a positive feedback loop between two global regulators AdpA and BldA in Streptomyces griseus. <i>Molecular Microbiology</i> , <b>2011</b> , 81, 1607-22	4.1	49
127	A novel o-aminophenol oxidase responsible for formation of the phenoxazinone chromophore of grixazone. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 824-33	5.4	47
126	amfR, an essential gene for aerial mycelium formation, is a member of the AdpA regulon in the A-factor regulatory cascade in Streptomyces griseus. <i>Molecular Microbiology</i> , <b>2003</b> , 50, 1173-87	4.1	43
125	Transcriptional control by A-factor of two trypsin genes in Streptomyces griseus. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 286-95	3.5	43
124	Genome mining reveals two novel bacterial sesquiterpene cyclases: (-)-germacradien-4-ol and (-)-epi- $\beta$ -bisabolol synthases from Streptomyces citricolor. <i>ChemBioChem</i> , <b>2011</b> , 12, 2271-5	3.8	42
123	DNA microarray analysis of global gene regulation by A-factor in Streptomyces griseus. <i>Microbiology (United Kingdom)</i> , <b>2009</b> , 155, 2197-2210	2.9	42

122	Autorepression of AdpA of the AraC/XylS family, a key transcriptional activator in the A-factor regulatory cascade in <i>Streptomyces griseus</i> . <i>Journal of Molecular Biology</i> , <b>2005</b> , 350, 12-26	6.5	40
121	Conditionally positive effect of the TetR-family transcriptional regulator AtrA on streptomycin production by <i>Streptomyces griseus</i> . <i>Microbiology (United Kingdom)</i> , <b>2008</b> , 154, 905-914	2.9	39
120	Alteration of reaction and substrate specificity of a bacterial type III polyketide synthase by site-directed mutagenesis. <i>Biochemical Journal</i> , <b>2002</b> , 367, 781-9	3.8	39
119	Identification and characterization of the linalool/nerolidol synthase from <i>Streptomyces clavuligerus</i> . <i>ChemBioChem</i> , <b>2011</b> , 12, 2403-7	3.8	38
118	Control of acetic acid fermentation by quorum sensing via N-acylhomoserine lactones in <i>Gluconacetobacter intermedius</i> . <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 2546-55	3.5	38
117	Type III polyketide synthases in microorganisms. <i>Methods in Enzymology</i> , <b>2012</b> , 515, 359-77	1.7	37
116	Characterization of the biosynthesis gene cluster for alkyl-O-dihydrogeranyl-methoxyhydroquinones in <i>Actinoplanes missouriensis</i> . <i>ChemBioChem</i> , <b>2011</b> , 12, 439-48	3.8	37
115	Fatty acyl-AMP ligase involvement in the production of alkylresorcylic acid by a <i>Myxococcus xanthus</i> type III polyketide synthase. <i>ChemBioChem</i> , <b>2011</b> , 12, 2166-76	3.8	37
114	Regio- and stereospecific hydroxylation of various steroids at the 16 $\beta$ position of the D ring by the <i>Streptomyces griseus</i> cytochrome P450 CYP154C3. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 1371-9	4.8	36
113	Precursor-directed biosynthesis of curcumin analogs in <i>Escherichia coli</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2010</b> , 74, 641-5	2.1	36
112	A single target is sufficient to account for the biological effects of the A-factor receptor protein of <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 2206-11	3.5	36
111	Biotransformation of flavone and flavanone by <i>Streptomyces lividans</i> cells carrying shuffled biphenyl dioxygenase genes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2003</b> , 21, 113-121		36
110	Dynamic changes in the extracellular proteome caused by absence of a pleiotropic regulator AdpA in <i>Streptomyces griseus</i> . <i>Molecular Microbiology</i> , <b>2009</b> , 73, 898-912	4.1	34
109	Control of the <i>Streptomyces</i> Subtilisin inhibitor gene by AdpA in the A-factor regulatory cascade in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 6207-16	3.5	34
108	A copper-containing oxidase catalyzes C-nitrosation in nitrosobenzamide biosynthesis. <i>Nature Chemical Biology</i> , <b>2010</b> , 6, 641-3	11.7	32
107	Identification of the SGR6065 gene product as a sesquiterpene cyclase involved in (+)-epicubenol biosynthesis in <i>Streptomyces griseus</i> . <i>Journal of Antibiotics</i> , <b>2012</b> , 65, 551-8	3.7	31
106	Structure/function correlations among coupled binuclear copper proteins through spectroscopic and reactivity studies of NspF. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 10793-7	11.5	31
105	Deprogrammed sporulation in <i>Streptomyces</i> . <i>FEMS Microbiology Letters</i> , <b>2002</b> , 216, 1-7	2.9	31

104	Biosynthetic Gene Cluster for Surugamide A Encompasses an Unrelated Decapeptide, Surugamide F. <i>ChemBioChem</i> , <b>2016</b> , 17, 1709-12	3.8	30
103	Reconstitution of a Type II Polyketide Synthase that Catalyzes Polyene Formation. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1954-1957	16.4	29
102	Identification and characterization of a bacterial cytochrome P450 monooxygenase catalyzing the 3-nitration of tyrosine in rufomycin biosynthesis. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 15859-15869	5.4	29
101	A-factor and phosphate depletion signals are transmitted to the grixazone biosynthesis genes via the pathway-specific transcriptional activator GriR. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 3515-24	3.5	29
100	Three chymotrypsin genes are members of the AdpA regulon in the A-factor regulatory cascade in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 6341-53	3.5	29
99	Caffeic acid production by simultaneous saccharification and fermentation of kraft pulp using recombinant <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 5279-5290	5.7	27
98	CebR as a master regulator for cellulose/celooligosaccharide catabolism affects morphological development in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 5930-40	3.5	27
97	Structures of grixazone A and B, A-factor-dependent yellow pigments produced under phosphate depletion by <i>Streptomyces griseus</i> . <i>Journal of Antibiotics</i> , <b>2004</b> , 57, 218-23	3.7	27
96	Production of a Novel Amide-Containing Polyene by Activating a Cryptic Biosynthetic Gene Cluster in <i>Streptomyces</i> sp. MSC090213JE08. <i>ChemBioChem</i> , <b>2016</b> , 17, 1464-71	3.8	26
95	Arylamine N-acetyltransferase responsible for acetylation of 2-aminophenols in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 2155-9	3.5	24
94	3-Amino-4-hydroxybenzoic acid production from sweet sorghum juice by recombinant <i>Corynebacterium glutamicum</i> . <i>Bioresource Technology</i> , <b>2015</b> , 198, 410-7	11	23
93	Biosynthesis of the 4-methyloxazoline-containing nonribosomal peptides, JBIR-34 and -35, in <i>Streptomyces</i> sp. Sp080513GE-23. <i>Chemistry and Biology</i> , <b>2014</b> , 21, 923-34		23
92	Identification and gene disruption of small noncoding RNAs in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 4896-904	3.5	23
91	An oligoribonuclease gene in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 4647-53	3.5	23
90	Structural basis for cyclization specificity of two <i>Azotobacter</i> type III polyketide synthases: a single amino acid substitution reverses their cyclization specificity. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 34146-34157	5.4	22
89	Two glycine riboswitches activate the glycine cleavage system essential for glycine detoxification in <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 1369-76	3.5	21
88	GriC and GriD constitute a carboxylic acid reductase involved in grixazone biosynthesis in <i>Streptomyces griseus</i> . <i>Journal of Antibiotics</i> , <b>2007</b> , 60, 380-7	3.7	21
87	Biotransformation of phenanthrene and 1-methoxynaphthalene with <i>Streptomyces lividans</i> cells expressing a marine bacterial phenanthrene dioxygenase gene cluster. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2001</b> , 65, 1774-81	2.1	21

86	Genome engineering for microbial natural product discovery. <i>Current Opinion in Microbiology</i> , <b>2018</b> , 45, 53-60	7.9	20
85	Structural and biochemical elucidation of mechanism for decarboxylative condensation of beta-keto acid by curcumin synthase. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 6659-68	5.4	20
84	Substrate recognition mechanism and substrate-dependent conformational changes of an ROK family glucokinase from <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 607-16	3.5	20
83	Regulation of Sporangium Formation by BldD in the Rare Actinomycete <i>Actinoplanes missouriensis</i> . <i>Journal of Bacteriology</i> , <b>2017</b> , 199,	3.5	19
82	Characterization of <i>Actinoplanes missouriensis</i> spore flagella. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 2559-62	4.8	19
81	Characterization of secretory intermediates of <i>Serratia marcescens</i> serine protease produced during its extracellular secretion from <i>Escherichia coli</i> cells. <i>Journal of Biochemistry</i> , <b>1993</b> , 114, 723-31	3.1	19
80	Unexpected link between polyketide synthase and calcium carbonate biomineralization. <i>Zoological Letters</i> , <b>2015</b> , 1, 3	3	18
79	Identification and Characterization of the Streptazone E Biosynthetic Gene Cluster in <i>Streptomyces</i> sp. MSC090213JE08. <i>ChemBioChem</i> , <b>2015</b> , 16, 2385-91	3.8	18
78	The O-methyltransferase SrsB catalyzes the decarboxylative methylation of alkylresorcylic acid during phenolic lipid biosynthesis by <i>Streptomyces griseus</i> . <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 1544-51	3.5	18
77	Complete genome sequence of the motile actinomycete <i>Actinoplanes missouriensis</i> 431(T) (= NBRC 102363(T)). <i>Standards in Genomic Sciences</i> , <b>2012</b> , 7, 294-303		18
76	Identification and characterization of target genes of the GinI/GinR quorum-sensing system in <i>Gluconacetobacter intermedius</i> . <i>Microbiology (United Kingdom)</i> , <b>2009</b> , 155, 3021-3032	2.9	18
75	Protein acetylation involved in streptomycin biosynthesis in <i>Streptomyces griseus</i> . <i>Journal of Proteomics</i> , <b>2017</b> , 155, 63-72	3.9	17
74	4-Hydroxy-3-methyl-6-(1-methyl-2-oxoalkyl)pyran-2-one synthesis by a type III polyketide synthase from <i>Rhodospirillum centenum</i> . <i>ChemBioChem</i> , <b>2013</b> , 14, 1006-13	3.8	17
73	The <i>Streptomyces subtilisin</i> inhibitor (SSI) gene in <i>Streptomyces coelicolor</i> A3(2). <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2005</b> , 69, 1624-9	2.1	17
72	Oxygenation reactions of various tricyclic fused aromatic compounds using <i>Escherichia coli</i> and <i>Streptomyces lividans</i> transformants carrying several arene dioxygenase genes. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2001</b> , 65, 2472-81	2.1	17
71	Extracellular transport of pseudoazurin of <i>Alcaligenes faecalis</i> in <i>Escherichia coli</i> using the COOH-terminal domain of <i>Serratia marcescens</i> serine protease. <i>Journal of Biochemistry</i> , <b>1994</b> , 116, 327-34 <sup>1</sup>		17
70	Bifunctionality of ActIV as a Cyclase-Thioesterase Revealed by in Vitro Reconstitution of Actinorhodin Biosynthesis in <i>Streptomyces coelicolor</i> A3(2). <i>ChemBioChem</i> , <b>2017</b> , 18, 316-323	3.8	16
69	Structural basis for selectivity in a highly reducing type II polyketide synthase. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 776-782	11.7	15



68	Complex structure of the DNA-binding domain of AdpA, the global transcription factor in <i>Streptomyces griseus</i> , and a target duplex DNA reveals the structural basis of its tolerant DNA sequence specificity. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 31019-29	5.4	15
67	Crystallization of CprB, an autoregulator-receptor protein from <i>Streptomyces coelicolor</i> A3(2). <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2003</b> , 59, 2313-5		15
66	A calmodulin-like protein in the bacterial genus <i>Streptomyces</i> . <i>FEMS Microbiology Letters</i> , <b>2005</b> , 244, 315-21	2.9	15
65	Production of the plant polyketide curcumin in : strengthening malonyl-CoA supply for yield improvement. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2019</b> , 83, 1372-1381	2.1	14
64	Involvement of amfC in physiological and morphological development in <i>Streptomyces coelicolor</i> A3(2). <i>Microbiology (United Kingdom)</i> , <b>1999</b> , 145 ( Pt 9), 2273-2280	2.9	14
63	An alternative sigma factor governs the principal sigma factor in <i>Streptomyces griseus</i> . <i>Molecular Microbiology</i> , <b>2013</b> , 87, 1223-36	4.1	13
62	Chitinase inhibitor allosamidin promotes chitinase production of <i>Streptomyces</i> generally. <i>International Journal of Biological Macromolecules</i> , <b>2008</b> , 43, 13-9	7.9	13
61	Chitinase inhibitor allosamidin is a signal molecule for chitinase production in its producing <i>Streptomyces</i> II. Mechanism for regulation of chitinase production by allosamidin through a two-component regulatory system. <i>Journal of Antibiotics</i> , <b>2006</b> , 59, 410-7	3.7	13
60	Genetic and Transcriptional Analyses of the Flagellar Gene Cluster in <i>Actinoplanes missouriensis</i> . <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 2219-27	3.5	12
59	Control of aerial mycelium formation by the BldK oligopeptide ABC transporter in <i>Streptomyces griseus</i> . <i>FEMS Microbiology Letters</i> , <b>2011</b> , 315, 54-62	2.9	12
58	An OmpA family protein, a target of the GinI/GinR quorum-sensing system in <i>Gluconacetobacter intermedius</i> , controls acetic acid fermentation. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 5009-19	3.5	12
57	Hydroxylation of ionized aromatics including carboxylic acid or amine using recombinant <i>Streptomyces lividans</i> cells expressing modified biphenyl dioxygenase genes. <i>Tetrahedron</i> , <b>2003</b> , 59, 1895-1900	2.4	12
56	Extracellular production of a <i>Serratia marcescens</i> serine protease in <i>Escherichia coli</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>1996</b> , 60, 1551-8	2.1	12
55	A calcium-binding protein with four EF-hand motifs in <i>Streptomyces ambofaciens</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2001</b> , 65, 156-60	2.1	11
54	Novel desferrioxamine derivatives synthesized using the secondary metabolism-specific nitrous acid biosynthetic pathway in <i>Streptomyces davawensis</i> . <i>Journal of Antibiotics</i> , <b>2018</b> , 71, 911-919	3.7	10
53	Characterization of alg2 encoding a mannosyltransferase in the zygomycete fungus <i>Rhizomucor pusillus</i> . <i>Gene</i> , <b>1998</b> , 221, 179-84	3.8	10
52	A novel pair of terminal protein and telomere-associated protein for replication of the linear chromosome of <i>Streptomyces griseus</i> IFO13350. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2008</b> , 72, 2973-80	2.1	10
51	Isolation of DNA Fragments Bound by Transcriptional Factors, AdpA and ArpA, in the A-Factor Regulatory Cascade.. <i>Nihon Hosenkin Gakkai Shi = Actinomycetologica</i> , <b>2000</b> , 14, 37-42		9

50	Regulation of sporangium formation by the orphan response regulator TcrA in the rare actinomycete <i>Actinoplanes missouriensis</i> . <i>Molecular Microbiology</i> , <b>2018</b> , 107, 718-733	4.1	8
49	Crystal structure of the nitrosuccinate lyase CreD in complex with fumarate provides insights into the catalytic mechanism for nitrous acid elimination. <i>FEBS Journal</i> , <b>2018</b> , 285, 1540-1555	5.7	7
48	Isolation, structural elucidation and biosynthesis of 3-hydroxy-6-dimethylallylindolin-2-one, a novel prenylated indole derivative from <i>Actinoplanes missouriensis</i> . <i>Journal of Antibiotics</i> , <b>2014</b> , 67, 231-6	3.7	7
47	Predictive model for epoxide hydrolase-generated stereochemistry in the biosynthesis of nine-membered enediyne antitumor antibiotics. <i>Biochemistry</i> , <b>2013</b> , 52, 5217-24	3.2	7
46	Self-activation of serine/threonine kinase AfsK on autophosphorylation at threonine-168. <i>Journal of Antibiotics</i> , <b>2006</b> , 59, 117-23	3.7	7
45	Involvement of the Baeyer-Villiger Monooxygenase IfnQ in the Biosynthesis of Isofuranonaphthoquinone Scaffold of JBIR-76 and -77. <i>ChemBioChem</i> , <b>2016</b> , 17, 1021-8	3.8	7
44	Ultrahigh Thermoresistant Lightweight Bioplastics Developed from Fermentation Products of Cellulosic Feedstock. <i>Advanced Sustainable Systems</i> , <b>2021</b> , 5, 2000193	5.9	7
43	Crystal structure of curcuminoid synthase CUS from <i>Oryza sativa</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2011</b> , 79, 669-73	4.2	6
42	Discovery of "heat shock metabolites" produced by thermotolerant actinomycetes in high-temperature culture. <i>Journal of Antibiotics</i> , <b>2020</b> , 73, 203-210	3.7	6
41	Characterization of Zoospore Type IV Pili in <i>Actinoplanes missouriensis</i> . <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	5
40	Switching the Ligand Specificity of the Biosensor XylS from to -Toluic Acid through Directed Evolution Exploiting a Dual Selection System. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 2679-2689	5.7	5
39	Naphthoquinone-like polyketide isolated from <i>Streptomyces</i> sp. RI-77 and its predicted biosynthetic pathway. <i>Journal of Natural Products</i> , <b>2011</b> , 74, 2588-91	4.9	5
38	Production of dehydrogingerdione derivatives in <i>Escherichia coli</i> by exploiting a curcuminoid synthase from <i>Oryza sativa</i> and a $\beta$ -oxidation pathway from <i>Saccharomyces cerevisiae</i> . <i>ChemBioChem</i> , <b>2010</b> , 11, 2034-41	3.8	5
37	Structural and Functional Analyses of the Tridomain-Nonribosomal Peptide Synthetase FmoA3 for 4-Methyloxazoline Ring Formation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 14554-14562	16.4	5
36	Involvement of $\beta$ -Alkylation Machinery and Two Sets of Ketosynthase-Chain-Length Factors in the Biosynthesis of Fogacin Polyketides in <i>Actinoplanes missouriensis</i> . <i>ChemBioChem</i> , <b>2019</b> , 20, 1039-1050	3.8	5
35	Reconstitution of a Type II Polyketide Synthase that Catalyzes Polyene Formation. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 1972-1975	3.6	4
34	Purification, crystallization and preliminary X-ray analysis of the DNA-binding domain of AdpA, the central transcription factor in the A-factor regulatory cascade in the filamentous bacterium <i>Streptomyces griseus</i> , in complex with a duplex DNA. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2012</b> , 68, 946-9		4
33	Isolation of a novel plasmid from <i>Couchioplanes caeruleus</i> and construction of two plasmid vectors for gene expression in <i>Actinoplanes missouriensis</i> . <i>Plasmid</i> , <b>2015</b> , 77, 32-8	3.3	3



32	Involvement of three FliA-family sigma factors in the sporangium formation, spore dormancy and sporangium dehiscence in <i>Actinoplanes missouriensis</i> . <i>Molecular Microbiology</i> , <b>2020</b> , 113, 1170-1188	4.1	2
31	Proteomic analysis of the <i>Streptomyces griseus</i> ribosomal fraction. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2012</b> , 76, 2267-74	2.1	2
30	?????????????????. <i>Kagaku To Seibutsu</i> , <b>2009</b> , 47, 419-426	0	2
29	Molecular genetics of <i>Streptomyces</i> -Regulation of secondary metabolism and morphological differentiation. <i>Nippon Nogeikagaku Kaishi</i> , <b>2003</b> , 77, 852-858		2
28	Phenolic Lipids Synthesized by Type III Polyketide Synthases <b>2017</b> , 1-11		2
27	Complete Biosynthetic Pathway of Alazopeptin, a Tripeptide Consisting of Two Molecules of 6-Diazo-5-oxo-L-norleucine and One Molecule of Alanine. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 10319-10325	16.4	2
26	Aspartate kinase involved in 4-hydroxy-3-nitrosobenzamide biosynthesis in <i>Streptomyces murayamaensis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2016</b> , 80, 2255-2263	2.1	2
25	?????????????????????. <i>Kagaku To Seibutsu</i> , <b>2011</b> , 49, 234-242	0	1
24	Substrate specificity of benzamide synthetase involved in 4-hydroxy-3-nitrosobenzamide biosynthesis. <i>Journal of Antibiotics</i> , <b>2011</b> , 64, 93-6	3.7	1
23	Purification, crystallization and preliminary X-ray analysis of glucokinase from <i>Streptomyces griseus</i> in complex with glucose. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2011</b> , 67, 914-6		1
22	Identification and Characterization of a Cell Wall Hydrolase for Sporangiospore Maturation in <i>Actinoplanes missouriensis</i> . <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	1
21	Preparation of Zoospores and Assay for Their Adherence to Solid Surfaces. <i>Bio-protocol</i> , <b>2019</b> , 9, e3458	0.9	1
20	The A-factor Regulatory Cascade in the Regulation of Physiological and Morphological Development in <i>Streptomyces griseus</i> . <i>Nihon Hosenkin Gakkai Shi = Actinomycetologica</i> , <b>2003</b> , 17, 23-27		1
19	Conditional Effect of the Deletion of <i>eshA</i> on Streptomycin Production in <i>Streptomyces griseus</i> IFO13350. <i>Nihon Hosenkin Gakkai Shi = Actinomycetologica</i> , <b>2010</b> , 24, 45-50		1
18	Efficient heterologous production of atrochrysone carboxylic acid-related polyketides in an <i>Aspergillus oryzae</i> host with enhanced malonyl-coenzyme A supply. <i>Journal of General and Applied Microbiology</i> , <b>2020</b> , 66, 195-199	1.5	1
17	Type III Polyketide Synthases Responsible for Phenolic Lipid Synthesis <b>2017</b> , 1-9		1
16	Rapid evaluation of the substrate specificity of 3-nitrobenzoic acid dioxygenase MnbAB via colorimetric detection using Saltzman reagent. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2021</b> ,	4.2	1
15	Characterization of a thermostable adenosine 5Pmonophosphate deaminase gene in <i>Streptomyces murinus</i> . <i>Journal of General and Applied Microbiology</i> , <b>2012</b> , 58, 65-70	1.5	0

- 14 Complete Biosynthetic Pathway of Alazopeptin, a Tripeptide Consisting of Two Molecules of 6-Diazo-5-oxo-L-norleucine and One Molecule of Alanine. *Angewandte Chemie*, **2021**, 133, 10407-10413 3.6 ○
- 13 Phenolic Lipids Synthesized by Type III Polyketide Synthases **2019**, 139-149
- 12 Purification, crystallization and preliminary X-ray analysis of SGR6054, a Streptomyces homologue of the mycobacterial integration host factor mIHF. *Acta Crystallographica Section F: Structural Biology Communications*, **2012**, 68, 1085-8
- 11 Formation of 5- or 6-Membered Ring via Nitrene Formation and Addition by a Cytochrome P450 in Benzastatin Biosynthesis. *Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry*, **2019**, 77, 912-919 0.2
- 10 Phenolic Lipids Synthesized by Type III Polyketide Synthases **2016**, 1-11
- 9 Type III Polyketide Synthases Responsible for Phenolic Lipid Synthesis **2016**, 1-9
- 8 Phenolic Lipids Synthesized by Type III Polyketide Synthases **2017**, 1-11
- 7 Structural and Functional Analyses of the Tridomain-Nonribosomal Peptide Synthetase FmoA3 for 4-Methyloxazoline Ring Formation. *Angewandte Chemie*, **2021**, 133, 14675-14683 3.6
- 6 Involvement of an FNR-like oxygen sensor in Komagataeibacter medellinensis for survival under oxygen depletion. *Bioscience, Biotechnology and Biochemistry*, **2021**, 85, 2065-2075 2.1
- 5 Type III Polyketide Synthases Responsible for Phenolic Lipid Synthesis **2019**, 435-443
- 4 A3 foresight network on natural products. *Journal of Industrial Microbiology and Biotechnology*, **2019**, 46, 313-317 4.2
- 3 Discovery of the 2,4PDihydroxy-3Pmethoxypropioiphenone Biosynthesis Genes in Aspergillus oryzae. *ChemBioChem*, **2021**, 22, 203-211 3.8
- 2 Enantioselective synthesis and stereochemical determination of the highly reduced polyketide ishigamide. *Bioscience, Biotechnology and Biochemistry*, **2021**, 85, 148-153 2.1
- 1 Enhanced production of L-amino acid 3-amino-4-hydroxybenzoic acid by recombinant Corynebacterium glutamicum under oxygen limitation.. *Microbial Cell Factories*, **2021**, 20, 228 6.4