

# Mervyn J Bibb

## List of Publications by Year in descending order

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111  
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docs citations

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times ranked

6752  
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#	ARTICLE	IF	CITATIONS
1	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. <i>Natural Product Reports</i> , 2013, 30, 108-160.	10.3	1,692
2	Regulation of secondary metabolism in streptomycetes. <i>Current Opinion in Microbiology</i> , 2005, 8, 208-215.	5.1	672
3	Engineering <i>Streptomyces coelicolor</i> for heterologous expression of secondary metabolite gene clusters. <i>Microbial Biotechnology</i> , 2011, 4, 207-215.	4.2	439
4	Codon usage in the G+C-rich <i>Streptomyces</i> genome. <i>Gene</i> , 1992, 113, 55-65.	2.2	417
5	Construction and characterisation of a series of multi-copy promoter-probe plasmid vectors for <i>Streptomyces</i> using the aminoglycoside phosphotransferase gene from Tn5 as indicator. <i>Molecular Genetics and Genomics</i> , 1986, 203, 468-478.	2.4	405
6	Gene expression in <i>Streptomyces</i> : Construction and application of promoter-probe plasmid vectors in <i>Streptomyces lividans</i> . <i>Molecular Genetics and Genomics</i> , 1982, 187, 265-277.	2.4	322
7	Cloning and analysis of the promoter region of the erythromycin resistance gene ( <i>ermE</i> ) of <i>Streptomyces erythraeus</i> . <i>Gene</i> , 1985, 38, 215-226.	2.2	312
8	Transformation of plasmid DNA into <i>Streptomyces</i> at high frequency. <i>Nature</i> , 1978, 274, 398-400.	27.8	306
9	A novel family of proteins that regulates antibiotic production in streptomycetes appears to contain an OmpR-like DNA-binding fold. <i>Molecular Microbiology</i> , 1997, 25, 1181-1184.	2.5	287
10	Cloning and analysis of the promoter region of the erythromycin-resistance gene ( <i>ermE</i> ) of <i>Streptomyces erythraeus</i> . <i>Gene</i> , 1986, 41, E357-E368.	2.2	261
11	Derivatives of pUC18 that have BglII sites flanking a modified multiple cloning site and that retain the ability to identify recombinant clones by visual screening of <i>Escherichia coli</i> colonies. <i>Gene</i> , 1993, 124, 133-134.	2.2	234
12	Physical and genetical characterisation of a second sex factor, SCP2, for <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Genetics and Genomics</i> , 1977, 154, 155-166.	2.4	222
13	A complex role for the Î³-butyrolactone SCB1 in regulating antibiotic production in <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , 2001, 41, 1015-1028.	2.5	211
14	A mixed community of actinomycetes produce multiple antibiotics for the fungus farming ant <i>Acromyrmex octospinosus</i> . <i>BMC Biology</i> , 2010, 8, 109.	3.8	211
15	<i>afsR</i> is a pleiotropic but conditionally required regulatory gene for antibiotic production in <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , 1996, 21, 385-396.	2.5	202
16	Stationary-phase production of the antibiotic actinorhodin in <i>Streptomyces coelicolor</i> A3(2) is transcriptionally regulated. <i>Molecular Microbiology</i> , 1993, 7, 837-845.	2.5	194
17	Discovery of Unique Lanthionine Synthetases Reveals New Mechanistic and Evolutionary Insights. <i>PLoS Biology</i> , 2010, 8, e1000339.	5.6	186
18	The mRNA for the 23S rRNA methylase encoded by the <i>ermE</i> gene of <i>Saccharopolyspora erythraea</i> is translated in the absence of a conventional ribosome-binding site. <i>Molecular Microbiology</i> , 1994, 14, 533-545.	2.5	178

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19	The nucleotide sequence of the tyrosinase gene from <i>Streptomyces antibioticus</i> and characterization of the gene product. <i>Gene</i> , 1985, 37, 101-110.	2.2	177
20	A DNA cloning system for interspecies gene transfer in antibiotic-producing <i>Streptomyces</i> . <i>Nature</i> , 1980, 284, 526-531.	27.8	171
21	Nucleotide sequences encoding and promoting expression of three antibiotic resistance genes indigenous to <i>Streptomyces</i> . <i>Molecular Genetics and Genomics</i> , 1985, 199, 26-36.	2.4	164
22	Analysis of the prodiginine biosynthesis gene cluster of <i>Streptomyces coelicolor</i> A3(2): new mechanisms for chain initiation and termination in modular multienzymes. <i>Chemistry and Biology</i> , 2001, 8, 817-829.	6.0	164
23	The agarase gene ( <i>dagA</i> ) of <i>Streptomyces coelicolor</i> A3(2): nucleotide sequence and transcriptional analysis. <i>Molecular Genetics and Genomics</i> , 1987, 209, 101-109.	2.4	157
24	Purification and Structural Determination of SCB1, a $\hat{1}$ -Butyrolactone That Elicits Antibiotic Production in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Biological Chemistry</i> , 2000, 275, 11010-11016.	3.4	154
25	At least three different RNA polymerase holoenzymes direct transcription of the agarase gene ( <i>dagA</i> ) of <i>streptomyces coelicolor</i> A3(2). <i>Cell</i> , 1988, 52, 599-607.	28.9	153
26	Structure and biosynthesis of the unusual polyketide alkaloid coelimycin P1, a metabolic product of the <i>cpk</i> gene cluster of <i>Streptomyces coelicolor</i> M145. <i>Chemical Science</i> , 2012, 3, 2716.	7.4	152
27	A bacterial hormone (the SCB1) directly controls the expression of a pathway-specific regulatory gene in the cryptic type I polyketide biosynthetic gene cluster of <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , 2005, 56, 465-479.	2.5	146
28	Deletion of a regulatory gene within the <i>cpk</i> gene cluster reveals novel antibacterial activity in <i>Streptomyces coelicolor</i> A3(2). <i>Microbiology (United Kingdom)</i> , 2010, 156, 2343-2353.	1.8	143
29	Microbisporicin gene cluster reveals unusual features of lantibiotic biosynthesis in actinomycetes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13461-13466.	7.1	141
30	Excision of chromosomal DNA sequences from <i>Streptomyces coelicolor</i> forms a novel family of plasmids detectable in <i>Streptomyces lividans</i> . <i>Molecular Genetics and Genomics</i> , 1981, 184, 230-240.	2.4	135
31	Construction of thiostrepton-inducible, high-copy-number expression vectors for use in <i>Streptomyces</i> spp.. <i>Gene</i> , 1995, 166, 133-137.	2.2	133
32	Genome-wide analysis of the role of GlnR in <i>Streptomyces venezuelae</i> provides new insights into global nitrogen regulation in actinomycetes. <i>BMC Genomics</i> , 2011, 12, 175.	2.8	127
33	Genome mining and genetic analysis of cypemycin biosynthesis reveal an unusual class of posttranslationally modified peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16297-16302.	7.1	123
34	Heterologous expression of natural product biosynthetic gene clusters in <i>Streptomyces coelicolor</i> : from genome mining to manipulation of biosynthetic pathways. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 425-431.	3.0	122
35	Next Generation Sequencing of Actinobacteria for the Discovery of Novel Natural Products. <i>Marine Drugs</i> , 2016, 14, 78.	4.6	118
36	A rare leucine codon in <i>adpA</i> is implicated in the morphological defect of <i>bldA</i> mutants of <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , 2003, 50, 475-486.	2.5	114

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37	Glucose repression in <i>Streptomyces coelicolor</i> A3(2): a likely regulatory role for glucose kinase. <i>Molecular Genetics and Genomics</i> , 1994, 244, 135-143.	2.4	106
38	Substrate induction and glucose repression of maltose utilization by <i>Streptomyces coelicolor</i> A3(2) is controlled by <i>malR</i> , a member of the <i>galR</i> family of regulatory genes. <i>Molecular Microbiology</i> , 1997, 23, 537-549.	2.5	95
39	Amplification of the entire kanamycin biosynthetic gene cluster during empirical strain improvement of <i>Streptomyces kanamyceticus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9661-9666.	7.1	95
40	Cloning, characterization and disruption of a (p)ppGpp synthetase gene ( <i>relA</i> ) of <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , 1996, 19, 357-368.	2.5	83
41	Phage P1-Derived Artificial Chromosomes Facilitate Heterologous Expression of the FK506 Gene Cluster. <i>PLoS ONE</i> , 2013, 8, e69319.	2.5	80
42	Engineering of Primary Carbon Metabolism for Improved Antibiotic Production in <i>Streptomyces lividans</i> . <i>Applied and Environmental Microbiology</i> , 2002, 68, 4731-4739.	3.1	79
43	Biosynthesis of the tunicamycin antibiotics proceeds via unique exo-glycal intermediates. <i>Nature Chemistry</i> , 2012, 4, 539-546.	13.6	79
44	A cassette containing the <i>bar</i> gene of <i>Streptomyces hygroscopicus</i> : a selectable marker for plant transformation. <i>Nucleic Acids Research</i> , 1990, 18, 1062-1062.	14.5	78
45	The antibiotic planosporicin coordinates its own production in the actinomycete <i>Planomonospora alba</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2500-9.	7.1	78
46	<i>Streptomyces</i> promoter-probe plasmids that utilise the <i>xylE</i> gene of <i>Pseudomonas putida</i> . <i>Nucleic Acids Research</i> , 1990, 18, 1077-1077.	14.5	77
47	Induction of ppGpp synthesis in <i>Streptomyces coelicolor</i> A3(2) grown under conditions of nutritional sufficiency elicits <i>actII-ORF4</i> transcription and actinorhodin biosynthesis. <i>Molecular Microbiology</i> , 2001, 39, 136-144.	2.5	76
48	[9] Plasmid and phage vectors for gene cloning and analysis in <i>Streptomyces</i> . <i>Methods in Enzymology</i> , 1987, 153, 116-166.	1.0	74
49	New Insights into Chloramphenicol Biosynthesis in <i>Streptomyces venezuelae</i> ATCC 10712. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 7441-7450.	3.2	74
50	Cloning, characterisation and regulation of an $\alpha$ -amylase gene from <i>Streptomyces venezuelae</i> . <i>Gene</i> , 1988, 74, 321-334.	2.2	73
51	Functional Analysis of <i>relA</i> and <i>rshA</i> , Two <i>relA/spoT</i> Homologues of <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Bacteriology</i> , 2001, 183, 3488-3498.	2.2	71
52	Analysis of the phosphoproteome of the multicellular bacterium <i>Streptomyces coelicolor</i> A3(2) by protein/peptide fractionation, phosphopeptide enrichment and high accuracy mass spectrometry. <i>Proteomics</i> , 2010, 10, 2486-2497.	2.2	68
53	Posttranslational $\alpha$ -methylation and macrolactamidation in the biosynthesis of the bottromycin complex of ribosomal peptide antibiotics. <i>Chemical Science</i> , 2012, 3, 3522.	7.4	67
54	Structures of DPAGT1 Explain Glycosylation Disease Mechanisms and Advance TB Antibiotic Design. <i>Cell</i> , 2018, 175, 1045-1058.e16.	28.9	67

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55	Abyssomicin Biosynthesis: Formation of an Unusual Polyketide, Antibiotic Feeding Studies and Genetic Analysis. <i>ChemBioChem</i> , 2011, 12, 1401-1410.	2.6	66
56	A system for the targeted amplification of bacterial gene clusters multiplies antibiotic yield in <i>Streptomyces coelicolor</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16020-16025.	7.1	66
57	The role of <i>absC</i> , a novel regulatory gene for secondary metabolism, in zinc-dependent antibiotic production in <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , 2009, 74, 1427-1444.	2.5	63
58	Biosynthesis and Regulation of Grisemycin, a New Member of the Linaridin Family of Ribosomally Synthesized Peptides Produced by <i>Streptomyces griseus</i> IFO 13350. <i>Journal of Bacteriology</i> , 2011, 193, 2510-2516.	2.2	63
59	The <i>Streptomyces leeuwenhoekii</i> genome: de novo sequencing and assembly in single contigs of the chromosome, circular plasmid pSLE1 and linear plasmid pSLE2. <i>BMC Genomics</i> , 2015, 16, 485.	2.8	61
60	Actinorhodin and undecylprodigiosin production in wild-type and mutant strains of <i>Streptomyces coelicolor</i> A3(2) grown in continuous culture. <i>FEMS Microbiology Letters</i> , 1998, 168, 221-226.	1.8	60
61	Understanding and manipulating antibiotic production in actinomycetes. <i>Biochemical Society Transactions</i> , 2013, 41, 1355-1364.	3.4	59
62	Dissecting tunicamycin biosynthesis by genome mining: cloning and heterologous expression of a minimal gene cluster. <i>Chemical Science</i> , 2010, 1, 581.	7.4	58
63	A New Piece of an Old Jigsaw: Glucose Kinase Is Activated Posttranslationally in a Glucose Transport-Dependent Manner in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Molecular Microbiology and Biotechnology</i> , 2007, 12, 67-74.	1.0	57
64	Use of the Meganuclease I-SceI of <i>Saccharomyces cerevisiae</i> to select for gene deletions in actinomycetes. <i>Scientific Reports</i> , 2014, 4, 7100.	3.3	57
65	The nucleotide sequence of a 16S rRNA gene from <i>Streptomyces coelicolor</i> A3(2). <i>Nucleic Acids Research</i> , 1987, 15, 7176-7176.	14.5	52
66	Discovery of Unusual Biaryl Polyketides by Activation of a Silent <i>Streptomyces venezuelae</i> Biosynthetic Gene Cluster. <i>ChemBioChem</i> , 2016, 17, 2189-2198.	2.6	50
67	Organisation of the ribosomal RNA genes in <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Genetics and Genomics</i> , 1988, 211, 191-196.	2.4	48
68	A single amino acid substitution in region 1.2 of the principal sigma factor of <i>Streptomyces coelicolor</i> A3(2) results in pleiotropic loss of antibiotic production. <i>Molecular Microbiology</i> , 2000, 37, 995-1004.	2.5	45
69	Glucose kinase of <i>Streptomyces coelicolor</i> A3(2): large-scale purification and biochemical analysis. <i>Antonie Van Leeuwenhoek</i> , 2000, 78, 253-261.	1.7	45
70	Cloning <i>Streptomyces</i> genes for antibiotic production. <i>Trends in Biotechnology</i> , 1983, 1, 42-48.	9.3	43
71	Novel Mechanism of Glycopeptide Resistance in the A40926 Producer <i>Nonomuraea</i> sp. ATCC 39727. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 2465-2472.	3.2	43
72	<i>Streptomyces coelicolor</i> as an Expression Host for Heterologous Gene Clusters. <i>Methods in Enzymology</i> , 2012, 517, 279-300.	1.0	43

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73	EshA Accentuates ppGpp Accumulation and Is Conditionally Required for Antibiotic Production in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Bacteriology</i> , 2006, 188, 4952-4961.	2.2	42
74	Cloning and Analysis of the Planosporicin Lantibiotic Biosynthetic Gene Cluster of <i>Planomonospora alba</i> . <i>Journal of Bacteriology</i> , 2013, 195, 2309-2321.	2.2	42
75	Watasemycin biosynthesis in <i>Streptomyces venezuelae</i> : thiazoline C-methylation by a type B radical-SAM methylase homologue. <i>Chemical Science</i> , 2017, 8, 2823-2831.	7.4	42
76	Heterologous expression of the biosynthetic gene clusters of coumermycin A <sub>1</sub> , clorobiocin and caprazamycins in genetically modified <i>Streptomyces coelicolor</i> strains. <i>Biopolymers</i> , 2010, 93, 823-832.	2.4	39
77	Feed-Forward Regulation of Microbisporicin Biosynthesis in <i>Microbispora corallina</i> . <i>Journal of Bacteriology</i> , 2011, 193, 3064-3071.	2.2	39
78	Investigation of DNA sequence recognition by a streptomycete MarR family transcriptional regulator through surface plasmon resonance and X-ray crystallography. <i>Nucleic Acids Research</i> , 2013, 41, 7009-7022.	14.5	39
79	The repressor gene (c) of the <i>Streptomyces</i> temperate phage $\phi$ c31: Nucleotide sequence, analysis and functional cloning. <i>Molecular Genetics and Genomics</i> , 1988, 213, 269-277.	2.4	38
80	Identification and Heterologous Expression of the Chaxamycin Biosynthesis Gene Cluster from <i>Streptomyces leeuwenhoekii</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 5820-5831.	3.1	38
81	Chapter 4 Analyzing the Regulation of Antibiotic Production in Streptomycetes. <i>Methods in Enzymology</i> , 2009, 458, 93-116.	1.0	36
82	Two Master Switch Regulators Trigger A40926 Biosynthesis in <i>Nonomuraea</i> sp. Strain ATCC 39727. <i>Journal of Bacteriology</i> , 2015, 197, 2536-2544.	2.2	36
83	The Linear Plasmid SCP1 of <i>Streptomyces coelicolor</i> A3(2) Possesses a Centrally Located Replication Origin and Shows Significant Homology to the Transposon Tn4811. <i>Plasmid</i> , 1999, 42, 174-185.	1.4	34
84	A <i>Streptomyces coelicolor</i> host for the heterologous expression of Type III polyketide synthase genes. <i>Microbial Cell Factories</i> , 2015, 14, 145.	4.0	34
85	The Stringent Response, ppGpp and Antibiotic Production in <i>Streptomyces coelicolor</i> A3(2).. <i>Nihon Hosenkin Gakkai Shi = Actinomycetologica</i> , 1994, 8, 1-16.	0.3	32
86	A <i>relA</i> -dependent regulatory cascade for autoinduction of microbisporicin production in <i>Microbispora corallina</i> . <i>Molecular Microbiology</i> , 2015, 97, 502-514.	2.5	28
87	Draft Genome Sequence of <i>Streptomyces</i> Strain S4, a Symbiont of the Leaf-Cutting Ant <i>Acromyrmex octospinosus</i> . <i>Journal of Bacteriology</i> , 2011, 193, 4270-4271.	2.2	27
88	Methods for the genetic manipulation of <i>Nonomuraea</i> sp. ATCC 39727. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2010, 37, 1097-1103.	3.0	26
89	Manipulating and understanding antibiotic production in <i>Streptomyces coelicolor</i> A3(2) with decoy oligonucleotides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1020-1025.	7.1	25
90	Analysis of a <i>ptsH</i> homologue from <i>Streptomyces coelicolor</i> A3(2). <i>FEMS Microbiology Letters</i> , 1999, 177, 279-288.	1.8	24

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91	Genome Sequence of the Abyssomicin- and Proximicin-Producing Marine Actinomycete <i>Verrucosispora maris</i> AB-18-032. <i>Journal of Bacteriology</i> , 2011, 193, 3391-3392.	2.2	24
92	Relationship between Glycopeptide Production and Resistance in the Actinomycete <i>Nonomuraea</i> sp. ATCC 39727. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 5191-5201.	3.2	24
93	The "gifted" actinomycete <i>Streptomyces leeuwenhoekii</i> . <i>Antonie Van Leeuwenhoek</i> , 2018, 111, 1433-1448.	1.7	24
94	In Situ Activation and Heterologous Production of a Cryptic Lantibiotic from an African Plant Ant-Derived <i>Saccharopolyspora</i> Species. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	22
95	A novel plasmid vector that uses the glucose kinase gene ( <i>glkA</i> ) for the positive selection of stable gene disruptants in <i>Streptomyces</i> . <i>Gene</i> , 1996, 182, 229-230.	2.2	21
96	A novel mechanism of immunity controls the onset of cinnamycin biosynthesis in <i>Streptomyces cinnamoneus</i> DSM 40646. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 563-572.	3.0	21
97	Heterologous Expression of a Cryptic Gene Cluster from <i>Streptomyces leeuwenhoekii</i> C34 Yields a Novel Lasso Peptide, Leepeptin. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	20
98	Analysis of the Tunicamycin Biosynthetic Gene Cluster of <i>Streptomyces chartreusis</i> Reveals New Insights into Tunicamycin Production and Immunity. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	19
99	New Molecular Tools for Regulation and Improvement of A40926 Glycopeptide Antibiotic Production in <i>Nonomuraea gerenzanensis</i> ATCC 39727. <i>Frontiers in Microbiology</i> , 2020, 11, 8.	3.5	19
100	Synthetic RNA Silencing of Actinorhodin Biosynthesis in <i>Streptomyces coelicolor</i> A3(2). <i>PLoS ONE</i> , 2013, 8, e67509.	2.5	18
101	Transcriptional analysis of the repressor gene of the temperate <i>Streptomyces</i> phage $\Phi$ C31. <i>Gene</i> , 1989, 85, 275-282.	2.2	16
102	Tandem promoters, <i>tsrp1</i> and <i>tsrp2</i> , direct transcription of the thiostrepton resistance gene ( <i>tsr</i> ) of <i>Streptomyces azureus</i> : Transcriptional initiation from <i>tsrp2</i> occurs after deletion of the "35 region. <i>Molecular Genetics and Genomics</i> , 1990, 221, 339-346.	2.4	15
103	Elongation Factor Tu3 (EF-Tu3) from the Kirromycin Producer <i>Streptomyces ramocissimus</i> Is Resistant to Three Classes of EF-Tu-Specific Inhibitors. <i>Journal of Bacteriology</i> , 2007, 189, 3581-3590.	2.2	15
104	ZouA, a Putative Relaxase, Is Essential for DNA Amplification in <i>Streptomyces kanamyceticus</i> . <i>Journal of Bacteriology</i> , 2011, 193, 1815-1822.	2.2	14
105	<i>Streptomyces venezuelae</i> NRRL B-65442: genome sequence of a model strain used to study morphological differentiation in filamentous actinobacteria. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2021, , .	3.0	14
106	A simple and reliable turbidimetric and kinetic assay for alpha-amylase that is readily applied to culture supernatants and cell extracts. <i>Journal of Industrial Microbiology</i> , 1990, 5, 295-301.	0.9	10
107	In vivo DNase I sensitivity of the <i>Streptomyces coelicolor</i> chromosome correlates with gene expression: implications for bacterial chromosome structure. <i>Nucleic Acids Research</i> , 2006, 34, 5395-5401.	14.5	9
108	High resolution crystal structure of Sco5413, a widespread actinomycete MarR family transcriptional regulator of unknown function. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 176-182.	2.6	7

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109	Dissecting the <i>Streptomyces</i> genome. Biochemical Society Transactions, 1984, 12, 584-586.	3.4	4
110	Genome editing reveals that pSCL4 is required for chromosome linearity in <i>Streptomyces clavuligerus</i> . Microbial Genomics, 2021, 7, .	2.0	2