Mervyn J Bibb

List of Publications by Year
in descending order

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110 papers	12,684 citations	23567 58 h-index	24258 110 g-index
111 all docs	111 docs citations	111 times ranked	6752 citing authors

#	Article	IF	Citations
1	Streptomyces venezuelae NRRL B-65442: genome sequence of a model strain used to study morphological differentiation in filamentous actinobacteria. Journal of Industrial Microbiology and Biotechnology, 2021, , .	3.0	14
2	Genome editing reveals that pSCL4 is required for chromosome linearity in Streptomyces clavuligerus. Microbial Genomics, 2021, 7, .	2.0	2
3	<i>In Situ</i> Activation and Heterologous Production of a Cryptic Lantibiotic from an African Plant Ant-Derived <i>Saccharopolyspora</i> Species. Applied and Environmental Microbiology, 2020, 86, .	3.1	22
4	New Molecular Tools for Regulation and Improvement of A40926 Glycopeptide Antibiotic Production in Nonomuraea gerenzanensis ATCC 39727. Frontiers in Microbiology, 2020, 11, 8.	3.5	19
5	Heterologous Expression of a Cryptic Gene Cluster from Streptomyces leeuwenhoekii C34 ^T Yields a Novel Lasso Peptide, Leepeptin. Applied and Environmental Microbiology, 2019, 85, .	3.1	20
6	The â€˜giftedâ€™ actinomycete Streptomyces leeuwenhoekii. Antonie Van Leeuwenhoek, 2018, 111, 1433-1448.	1.7	24
7	Structures of DPAGT1 Explain Glycosylation Disease Mechanisms and Advance TB Antibiotic Design. Cell, 2018, 175, 1045-1058.e16.	28.9	67
8	Analysis of the Tunicamycin Biosynthetic Gene Cluster of Streptomyces chartreusis Reveals New Insights into Tunicamycin Production and Immunity. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	19
9	A novel mechanism of immunity controls the onset of cinnamycin biosynthesis in <i>Streptomyces cinnamoneus</i> DSM 40646. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 563-572.	3.0	21
10	Watasemycin biosynthesis in Streptomyces venezuelae: thiazoline C-methylation by a type B radical-SAM methylase homologue. Chemical Science, 2017, 8, 2823-2831.	7.4	42
11	Next Generation Sequencing of Actinobacteria for the Discovery of Novel Natural Products. Marine Drugs, 2016, 14, 78.	4.6	118
12	Discovery of Unusual Biaryl Polyketides by Activation of a Silent <i>Streptomyces venezuelae</i> Biosynthetic Gene Cluster. ChemBioChem, 2016, 17, 2189-2198.	2.6	50
13	Two Master Switch Regulators Trigger A40926 Biosynthesis in Nonomuraea sp. Strain ATCC 39727. Journal of Bacteriology, 2015, 197, 2536-2544.	2.2	36
14	A <i>rel</i><scp><i>A</i></scp>â€dependent regulatory cascade for autoâ€induction of microbisporicin production in <scp><i>M</i></scp><i>icrobispora corallina</i>. Molecular Microbiology, 2015, 97, 502-514.	2.5	28
15	A Streptomyces coelicolor host for the heterologous expression of Type III polyketide synthase genes. Microbial Cell Factories, 2015, 14, 145.	4.0	34
16	The Streptomyces leeuwenhoekii genome: de novo sequencing and assembly in single contigs of the chromosome, circular plasmid pSLE1 and linear plasmid pSLE2. BMC Genomics, 2015, 16, 485.	2.8	61
17	Identification and Heterologous Expression of the Chaxamycin Biosynthesis Gene Cluster from Streptomyces leeuwenhoekii. Applied and Environmental Microbiology, 2015, 81, 5820-5831.	3.1	38
18	New Insights into Chloramphenicol Biosynthesis in Streptomyces venezuelae ATCC 10712. Antimicrobial Agents and Chemotherapy, 2014, 58, 7441-7450.	3.2	74

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19	Heterologous expression of natural product biosynthetic gene clusters in <i>Streptomyces coelicolor</i>: from genome mining to manipulation of biosynthetic pathways. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 425-431.	3.0	122
20	Relationship between Glycopeptide Production and Resistance in the Actinomycete Nonomuraea sp. ATCC 39727. Antimicrobial Agents and Chemotherapy, 2014, 58, 5191-5201.	3.2	24
21	Use of the Meganuclease I-SceI of Saccharomycescerevisiae to select for gene deletions in actinomycetes. Scientific Reports, 2014, 4, 7100.	3.3	57
22	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. Natural Product Reports, 2013, 30, 108-160.	10.3	1,692
23	High resolution crystal structure of Sco5413, a widespread actinomycete MarR family transcriptional regulator of unknown function. Proteins: Structure, Function and Bioinformatics, 2013, 81, 176-182.	2.6	7
24	Understanding and manipulating antibiotic production in actinomycetes. Biochemical Society Transactions, 2013, 41, 1355-1364.	3.4	59
25	Cloning and Analysis of the Planosporicin Lantibiotic Biosynthetic Gene Cluster of Planomonospora alba. Journal of Bacteriology, 2013, 195, 2309-2321.	2.2	42
26	Investigation of DNA sequence recognition by a streptomycete MarR family transcriptional regulator through surface plasmon resonance and X-ray crystallography. Nucleic Acids Research, 2013, 41, 7009-7022.	14.5	39
27	The antibiotic planosporicin coordinates its own production in the actinomycete <i>Planomonospora alba</i>. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2500-9.	7.1	78
28	Synthetic RNA Silencing of Actinorhodin Biosynthesis in Streptomyces coelicolor A3(2). PLoS ONE, 2013, 8, e67509.	2.5	18
29	Phage P1-Derived Artificial Chromosomes Facilitate Heterologous Expression of the FK506 Gene Cluster. PLoS ONE, 2013, 8, e69319.	2.5	80
30	Structure and biosynthesis of the unusual polyketide alkaloid coelimycin P1, a metabolic product of the cpk gene cluster of Streptomyces coelicolor M145. Chemical Science, 2012, 3, 2716.	7.4	152
31	Streptomyces coelicolor as an Expression Host for Heterologous Gene Clusters. Methods in Enzymology, 2012, 517, 279-300.	1.0	43
32	Biosynthesis of the tunicamycin antibiotics proceeds via unique exo-glycal intermediates. Nature Chemistry, 2012, 4, 539-546.	13.6	79
33	Posttranslational Î^{2}-methylation and macrolactamidination in the biosynthesis of the bottromycin complex of ribosomal peptide antibiotics. Chemical Science, 2012, 3, 3522.	7.4	67
34	Genome Sequence of the Abyssomicin- and Proximicin-Producing Marine Actinomycete Verrucosispora maris AB-18-032. Journal of Bacteriology, 2011, 193, 3391-3392.	2.2	24
35	Engineering <i>Streptomyces coelicolor</i> for heterologous expression of secondary metabolite gene clusters. Microbial Biotechnology, 2011, 4, 207-215.	4.2	439
36	Genome-wide analysis of the role of GlnR in Streptomyces venezuelae provides new insights into global nitrogen regulation in actinomycetes. BMC Genomics, 2011, 12, 175.	2.8	127

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37	Abyssomicin Biosynthesis: Formation of an Unusual Polyketide, Antibioticâ€Feeding Studies and Genetic Analysis. ChemBioChem, 2011, 12, 1401-1410.	2.6	66
38	Biosynthesis and Regulation of Grisemycin, a New Member of the Linaridin Family of Ribosomally Synthesized Peptides Produced by Streptomyces griseus IFO 13350. Journal of Bacteriology, 2011, 193, 2510-2516.	2.2	63
39	Feed-Forward Regulation of Microbisporicin Biosynthesis in Microbispora corallina. Journal of Bacteriology, 2011, 193, 3064-3071.	2.2	39
40	A system for the targeted amplification of bacterial gene clusters multiplies antibiotic yield in <i>Streptomyces coelicolor</i>. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16020-16025.	7.1	66
41	ZouA, a Putative Relaxase, Is Essential for DNA Amplification in Streptomyces kanamyceticus. Journal of Bacteriology, 2011, 193, 1815-1822.	2.2	14
42	Draft Genome Sequence of Streptomyces Strain S4, a Symbiont of the Leaf-Cutting Ant Acromyrmex octospinosus. Journal of Bacteriology, 2011, 193, 4270-4271.	2.2	27
43	Methods for the genetic manipulation of Nonomuraea sp. ATCC 39727. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 1097-1103.	3.0	26
44	Heterologous expression of the biosynthetic gene clusters of coumermycin A₁, clorobiocin and caprazamycins in genetically modified <i>Streptomyces coelicolor</i> strains. Biopolymers, 2010, 93, 823-832.	2.4	39
45	A mixed community of actinomycetes produce multiple antibiotics for the fungus farming ant Acromyrmex octospinosus. BMC Biology, 2010, 8, 109.	3.8	211
46	Analysis of the phosphoproteome of the multicellular bacterium <i>Streptomyces coelicolor</i> A3(2) by protein/peptide fractionation, phosphopeptide enrichment and highâ€accuracy mass spectrometry. Proteomics, 2010, 10, 2486-2497.	2.2	68
47	Novel Mechanism of Glycopeptide Resistance in the A40926 Producer <i>Nonomuraea</i> sp. ATCC 39727. Antimicrobial Agents and Chemotherapy, 2010, 54, 2465-2472.	3.2	43
48	Deletion of a regulatory gene within the cpk gene cluster reveals novel antibacterial activity in Streptomyces coelicolor A3(2). Microbiology (United Kingdom), 2010, 156, 2343-2353.	1.8	143
49	Microbisporicin gene cluster reveals unusual features of lantibiotic biosynthesis in actinomycetes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13461-13466.	7.1	141
50	Genome mining and genetic analysis of cypemycin biosynthesis reveal an unusual class of posttranslationally modified peptides. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16297-16302.	7.1	123
51	Discovery of Unique Lanthionine Synthetases Reveals New Mechanistic and Evolutionary Insights. PLoS Biology, 2010, 8, e1000339.	5.6	186
52	Dissecting tunicamycin biosynthesis by genome mining: cloning and heterologous expression of a minimal gene cluster. Chemical Science, 2010, 1, 581.	7.4	58
53	The role of <i>absC,</i> a novel regulatory gene for secondary metabolism, in zincâ€dependent antibiotic production in <i>Streptomyces coelicolor</i> A3(2). Molecular Microbiology, 2009, 74, 1427-1444.	2.5	63
54	Chapter 4 Analyzing the Regulation of Antibiotic Production in Streptomycetes. Methods in Enzymology, 2009, 458, 93-116.	1.0	36

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55	Manipulating and understanding antibiotic production in <i>Streptomyces coelicolor</i> A3(2) with decoy oligonucleotides. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1020-1025.	7.1	25
56	Elongation Factor Tu3 (EF-Tu3) from the Kirromycin Producer Streptomyces ramocissimus Is Resistant to Three Classes of EF-Tu-Specific Inhibitors. Journal of Bacteriology, 2007, 189, 3581-3590.	2.2	15
57	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). Journal of Molecular Microbiology and Biotechnology, 2007, 12, 67-74.	1.0	57
58	In vivo DNase I sensitivity of the Streptomyces coelicolor chromosome correlates with gene expression: implications for bacterial chromosome structure. Nucleic Acids Research, 2006, 34, 5395-5401.	14.5	9
59	Amplification of the entire kanamycin biosynthetic gene cluster during empirical strain improvement of Streptomyces kanamyceticus. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9661-9666.	7.1	95
60	EshA Accentuates ppGpp Accumulation and Is Conditionally Required for Antibiotic Production in Streptomyces coelicolor A3(2). Journal of Bacteriology, 2006, 188, 4952-4961.	2.2	42
61	A bacterial hormone (the SCB1) directly controls the expression of a pathwayâ€specific regulatory gene in the cryptic type I polyketide biosynthetic gene cluster of <i>Streptomyces coelicolor</i>. Molecular Microbiology, 2005, 56, 465-479.	2.5	146
62	Regulation of secondary metabolism in streptomycetes. Current Opinion in Microbiology, 2005, 8, 208-215.	5.1	672
63	A rare leucine codon in adpA is implicated in the morphological defect of bldA mutants of Streptomyces coelicolor. Molecular Microbiology, 2003, 50, 475-486.	2.5	114
64	Engineering of Primary Carbon Metabolism for Improved Antibiotic Production in Streptomyces lividans. Applied and Environmental Microbiology, 2002, 68, 4731-4739.	3.1	79
65	Induction of ppGpp synthesis in Streptomyces coelicolor A3(2) grown under conditions of nutritional sufficiency elicits actII-ORF4 transcription and actinorhodin biosynthesis. Molecular Microbiology, 2001, 39, 136-144.	2.5	76
66	Analysis of the prodiginine biosynthesis gene cluster of Streptomyces coelicolor A3(2): new mechanisms for chain initiation and termination in modular multienzymes. Chemistry and Biology, 2001, 8, 817-829.	6.0	164
67	Functional Analysis of relA and rshA , Two relA/spoT Homologues of Streptomyces coelicolor A3(2). Journal of Bacteriology, 2001, 183, 3488-3498.	2.2	71
68	A complex role for the Î³â€butyrolactone SCB1 in regulating antibiotic production in <i>Streptomyces coelicolor</i> A3(2). Molecular Microbiology, 2001, 41, 1015-1028.	2.5	211
69	A single amino acid substitution in region 1.2 of the principal sigma factor of Streptomyces coelicolor A3(2) results in pleiotropic loss of antibiotic production. Molecular Microbiology, 2000, 37, 995-1004.	2.5	45
70	Glucose kinase of Streptomyces coelicolor A3(2): large-scale purification and biochemical analysis. Antonie Van Leeuwenhoek, 2000, 78, 253-261.	1.7	45
71	Purification and Structural Determination of SCB1, a Î³-Butyrolactone That Elicits Antibiotic Production inStreptomyces coelicolor A3(2). Journal of Biological Chemistry, 2000, 275, 11010-11016.	3.4	154
72	Analysis of a<i>ptsH</i>homologue from<i>Streptomyces coelicolor</i>A3(2). FEMS Microbiology Letters, 1999, 177, 279-288.	1.8	24

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73	The Linear Plasmid SCP1 of Streptomyces coelicolor A3(2) Possesses a Centrally Located Replication Origin and Shows Significant Homology to the Transposon Tn4811. Plasmid, 1999, 42, 174-185.	1.4	34
74	Actinorhodin and undecylprodigiosin production in wild-type andrelAmutant strains ofStreptomyces coelicolorA3(2) grown in continuous culture. FEMS Microbiology Letters, 1998, 168, 221-226.	1.8	60
75	A novel family of proteins that regulates antibiotic production in streptomycetes appears to contain an OmpRâ€like DNAâ€binding fold. Molecular Microbiology, 1997, 25, 1181-1184.	2.5	287
76	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>lacIâ€“galR</i> family of regulatory genes. Molecular Microbiology, 1997, 23, 537-549.	2.5	95
77	A novel plasmid vector that uses the glucose kinase gene (glkA) for the positive selection of stable gene disruptants in Streptomyces. Gene, 1996, 182, 229-230.	2.2	21
78	Cloning, characterization and disruption of a (p)ppGpp synthetase gene (relA) of Streptomyces coelicolor A3(2). Molecular Microbiology, 1996, 19, 357-368.	2.5	83
79	afsR is a pleiotropic but conditionally required regulatory gene for antibiotic production in Streptomyces coelicolor A3(2). Molecular Microbiology, 1996, 21, 385-396.	2.5	202
80	Construction of thiostrepton-inducible, high-copy-number expression vectors for use in Streptomyces spp.. Gene, 1995, 166, 133-137.	2.2	133
81	Glucose repression in Streptomyces coelicolor A3(2): a likely regulatory role for glucose kinase. Molecular Genetics and Genomics, 1994, 244, 135-143.	2.4	106
82	The mRNA for the 23S rRNA methylase encoded by the ermE gene of Saccharopolyspora erythraea is translated in the absence of a conventional ribosome-binding site. Molecular Microbiology, 1994, 14, 533-545.	2.5	178
83	The Stringent Response, ppGpp and Antibiotic Production in Streptomyces coelicolor A3(2).. Nihon Hosenkin Gakkai Shi = Actinomycetologica, 1994, 8, 1-16.	0.3	32
84	Stationary-phase production of the antibiotic actinorhodin in Streptomyces coelicolor A3(2) is transcriptionally regulated. Molecular Microbiology, 1993, 7, 837-845.	2.5	194
85	Derivatives of pUC18 that have BgfII sites flanking a modified multiple cloning site and that retain the ability to identify recombinant clones by visual screening of Escherichia coli colonies. Gene, 1993, 124, 133-134.	2.2	234
86	Codon usage in the G+C-rich Streptomyces genome. Gene, 1992, 113, 55-65.	2.2	417
87	A simple and reliable turbidimetric and kinetic assay for alpha-amylase that is readily applied to culture supernatants and cell extracts. Journal of Industrial Microbiology, 1990, 5, 295-301.	0.9	10
88	Tandem promoters, tsrp1 and tsrp2, direct transcription of the thiostrepton resistance gene (tsr) of Streptomyces azureus: Transcriptional initiation from tsrp2 occurs after deletion of the â€” 35 region. Molecular Genetics and Genomics, 1990, 221, 339-346.	2.4	15
89	Streptomycespromoter-probe plasmids that utilise thexylEgene ofPseudomonas putida. Nucleic Acids Research, 1990, 18, 1077-1077.	14.5	77
90	A cassette containing thebargene ofStreptomyces hygroscopicus: a selectable marker for plant transformation. Nucleic Acids Research, 1990, 18, 1062-1062.	14.5	78

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91	Transcriptional analysis of the repressor gene of the temperate Streptomyces phage Ï†C31. Gene, 1989, 85, 275-282.	2.2	16
92	Organisation of the ribosomal RNA genes in Streptomyces coelicolor A3(2). Molecular Genetics and Genomics, 1988, 211, 191-196.	2.4	48
93	The repressor gene (c) of the Streptomyces temperate phage Ï•c31: Nucleotide sequence, analysis and functional cloning. Molecular Genetics and Genomics, 1988, 213, 269-277.	2.4	38
94	At least three different RNA polymerase holoenzymes direct transcription of the agarase gene (dagA) of streptomyces coelicolor A3(2). Cell, 1988, 52, 599-607.	28.9	153
95	Cloning, characterisation and regulation of an Î±-amylase gene from Streptomyces venezuelae. Gene, 1988, 74, 321-334.	2.2	73
96	The nucleotide sequence of a 16S rRNA gene fromStreptomyces coelicolorA3(2). Nucleic Acids Research, 1987, 15, 7176-7176.	14.5	52
97	[9] Plasmid and phage vectors for gene cloning and analysis in Streptomyces. Methods in Enzymology, 1987, 153, 116-166.	1.0	74
98	The agarase gene (dagA) of Streptomyces coelicolor A3(2): nucleotide sequence and transcriptional analysis. Molecular Genetics and Genomics, 1987, 209, 101-109.	2.4	157
99	Cloning and analysis of the promoter region of the erythromycin-resistance gene (ermE) of Streptomyces erythraeus. Gene, 1986, 41, E357-E368.	2.2	261
100	Construction and characterisation of a series of multi-copy promoter-probe plasmid vectors for Streptomyces using the aminoglycoside phosphotransferase gene from Tn5 as indicator. Molecular Genetics and Genomics, 1986, 203, 468-478.	2.4	405
101	Nucleotide sequences encoding and promoting expression of three antibiotic resistance genes indigenous to Streptomyces. Molecular Genetics and Genomics, 1985, 199, 26-36.	2.4	164
102	The nucleotide sequence of the tyrosinase gene from Streptomyces antibioticus and characterization of the gene product. Gene, 1985, 37, 101-110.	2.2	177
103	Cloning and analysis of the promoter region of the erythromycin resistance gene (ermE) of Streptomyces erythraeus. Gene, 1985, 38, 215-226.	2.2	312
104	Dissecting the <i>Streptomyces</i> genome. Biochemical Society Transactions, 1984, 12, 584-586.	3.4	4
105	Cloning Streptomyces genes for antibiotic production. Trends in Biotechnology, 1983, 1, 42-48.	9.3	43
106	Gene expression in Streptomyces: Construction and application of promoter-probe plasmid vectors in Streptomyces lividans. Molecular Genetics and Genomics, 1982, 187, 265-277.	2.4	322
107	Excision of chromosomal DNA sequences from Streptomyces coelicolor forms a novel family of plasmids detectable in Streptomyces lividans. Molecular Genetics and Genomics, 1981, 184, 230-240.	2.4	135
108	A DNA cloning system for interspecies gene transfer in antibiotic-producing Streptomyces. Nature, 1980, 284, 526-531.	27.8	171

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109	Transformation of plasmid DNA into Streptomyces at high frequency. Nature, 1978, 274, 398-400.	27.8	306
110	Physical and genetical characterisation of a second sex factor, SCP2, for Streptomyces coelicolor A3(2). Molecular Genetics and Genomics, 1977, 154, 155-166.	2.4	222