Carmen Mndez

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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.

180 papers

8,357 citations

52 h-index

83 g-index

189 ext. papers

9,122 ext. citations

avg, IF

5.61 L-index

#	Paper	IF	Citations
180	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015 , 11, 625-31	11.7	498
179	Indolocarbazole natural products: occurrence, biosynthesis, and biological activity. <i>Natural Product Reports</i> , 2006 , 23, 1007-45	15.1	305
178	Improving production of bioactive secondary metabolites in actinomycetes by metabolic engineering. <i>Metabolic Engineering</i> , 2008 , 10, 281-92	9.7	226
177	Antitumor compounds from marine actinomycetes. <i>Marine Drugs</i> , 2009 , 7, 210-48	6	217
176	Combinatorial biosynthesis of antitumor indolocarbazole compounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 461-6	11.5	211
175	The biosynthetic gene cluster for the antitumor rebeccamycin: characterization and generation of indolocarbazole derivatives. <i>Chemistry and Biology</i> , 2002 , 9, 519-31		172
174	The developmental fate of S. coelicolor hyphae depends upon a gene product homologous with the motility sigma factor of B. subtilis. <i>Cell</i> , 1989 , 59, 133-43	56.2	168
173	Two glycosyltransferases and a glycosidase are involved in oleandomycin modification during its biosynthesis by Streptomyces antibioticus. <i>Molecular Microbiology</i> , 1998 , 28, 1177-85	4.1	159
172	Activation and identification of five clusters for secondary metabolites in Streptomyces albus J1074. <i>Microbial Biotechnology</i> , 2014 , 7, 242-56	6.3	152
171	Deciphering the biosynthesis pathway of the antitumor thiocoraline from a marine actinomycete and its expression in two streptomyces species. <i>ChemBioChem</i> , 2006 , 7, 366-76	3.8	146
170	Altering the glycosylation pattern of bioactive compounds. <i>Trends in Biotechnology</i> , 2001 , 19, 449-56	15.1	146
169	A regioselective tryptophan 5-halogenase is involved in pyrroindomycin biosynthesis in Streptomyces rugosporus LL-42D005. <i>Chemistry and Biology</i> , 2005 , 12, 445-52		144
168	Post-PKS tailoring steps in natural product-producing actinomycetes from the perspective of combinatorial biosynthesis. <i>Natural Product Reports</i> , 2010 , 27, 571-616	15.1	130
167	The aureolic acid family of antitumor compounds: structure, mode of action, biosynthesis, and novel derivatives. <i>Applied Microbiology and Biotechnology</i> , 2006 , 73, 1-14	5.7	129
166	Engineering the glycosylation of natural products in actinomycetes. <i>Trends in Microbiology</i> , 2007 , 15, 219-32	12.4	108
165	Mithramycin SK, a novel antitumor drug with improved therapeutic index, mithramycin SA, and demycarosyl-mithramycin SK: three new products generated in the mithramycin producer Streptomyces argillaceus through combinatorial biosynthesis. <i>Journal of the American Chemical</i>	16.4	108
164	Society, 2003, 125, 5745-53 The role of ABC transporters in antibiotic-producing organisms: drug secretion and resistance mechanisms. Research in Microbiology, 2001, 152, 341-50	4	103

(1997-2005)

163	Deciphering the late steps in the biosynthesis of the anti-tumour indolocarbazole staurosporine: sugar donor substrate flexibility of the StaG glycosyltransferase. <i>Molecular Microbiology</i> , 2005 , 58, 17-2	27 ^{4.1}	99	
162	Engineering deoxysugar biosynthetic pathways from antibiotic-producing microorganisms. A tool to produce novel glycosylated bioactive compounds. <i>Chemistry and Biology</i> , 2002 , 9, 721-9		94	
161	Antitumor compounds from actinomycetes: from gene clusters to new derivatives by combinatorial biosynthesis. <i>Natural Product Reports</i> , 2009 , 26, 628-60	15.1	93	
160	Isolation, characterization, and heterologous expression of the biosynthesis gene cluster for the antitumor anthracycline steffimycin. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 4172-83	4.8	92	
159	Characterization of Streptomyces argillaceus genes encoding a polyketide synthase involved in the biosynthesis of the antitumor mithramycin. <i>Gene</i> , 1996 , 172, 87-91	3.8	87	
158	Identification and expression of genes involved in biosynthesis of L-oleandrose and its intermediate L-olivose in the oleandomycin producer Streptomyces antibioticus. <i>Antimicrobial Agents and Chemotherapy</i> , 2000 , 44, 1266-75	5.9	86	
157	Reevaluation of the violacein biosynthetic pathway and its relationship to indolocarbazole biosynthesis. <i>ChemBioChem</i> , 2006 , 7, 1231-40	3.8	82	
156	Visualizing gene expression in time and space in the filamentous bacterium Streptomyces coelicolor. <i>Science</i> , 1988 , 240, 768-72	33.3	82	
155	The biosynthetic gene cluster for the beta-lactam carbapenem thienamycin in Streptomyces cattleya. <i>Chemistry and Biology</i> , 2003 , 10, 301-11		78	
154	Identification of a sugar flexible glycosyltransferase from Streptomyces olivaceus, the producer of the antitumor polyketide elloramycin. <i>Chemistry and Biology</i> , 2001 , 8, 253-63		76	
153	Rationally designed glycosylated premithramycins: hybrid aromatic polyketides using genes from three different biosynthetic pathways. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6056-62	16.4	74	
152	Role of glycosylation and deglycosylation in biosynthesis of and resistance to oleandomycin in the producer organism, Streptomyces antibioticus. <i>Journal of Bacteriology</i> , 1992 , 174, 161-5	3.5	72	
151	Oxidative cleavage of premithramycin B is one of the last steps in the biosynthesis of the antitumor drug mithramycin. <i>Chemistry and Biology</i> , 1999 , 6, 19-30		71	
150	Engineering specificity of starter unit selection by the erythromycin-producing polyketide synthase. <i>Molecular Microbiology</i> , 2002 , 43, 1215-25	4.1	70	
149	Role of substrate mycelium in colony development in Streptomyces. <i>Canadian Journal of Microbiology</i> , 1985 , 31, 446-50	3.2	7°	
148	The structure of mithramycin reinvestigated. <i>Journal of Natural Products</i> , 1999 , 62, 119-21	4.9	69	
147	Characterisation of a Streptomyces antibioticus gene encoding a type I polyketide synthase which has an unusual coding sequence. <i>Molecular Genetics and Genomics</i> , 1994 , 242, 358-62		68	
146	Cloning and insertional inactivation of Streptomyces argillaceus genes involved in the earliest steps of biosynthesis of the sugar moieties of the antitumor polyketide mithramycin. <i>Journal of Bacteriology</i> , 1997 , 179, 3354-7	3.5	66	

145	Glycosyltransferases, important tools for drug design. <i>Current Topics in Medicinal Chemistry</i> , 2008 , 8, 680-709	3	66
144	Streptomyces antibioticus contains at least three oleandomycin-resistance determinants, one of which shows similarity with proteins of the ABC-transporter superfamily. <i>Molecular Microbiology</i> , 1993 , 8, 571-82	4.1	66
143	Engineering biosynthetic pathways for deoxysugars: branched-chain sugar pathways and derivatives from the antitumor tetracenomycin. <i>Chemistry and Biology</i> , 2004 , 11, 1709-18		64
142	A novel mithramycin analogue with high antitumor activity and less toxicity generated by combinatorial biosynthesis. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 5813-25	8.3	62
141	A second ABC transporter is involved in oleandomycin resistance and its secretion by Streptomyces antibioticus. <i>Molecular Microbiology</i> , 1995 , 16, 333-43	4.1	62
140	The mithramycin gene cluster of Streptomyces argillaceus contains a positive regulatory gene and two repeated DNA sequences that are located at both ends of the cluster. <i>Journal of Bacteriology</i> , 1999 , 181, 642-7	3.5	61
139	Cloning of whiG, a gene critical for sporulation of Streptomyces coelicolor A3(2). <i>Journal of Bacteriology</i> , 1987 , 169, 5715-20	3.5	60
138	Generation of new landomycins by combinatorial biosynthetic manipulation of the LndGT4 gene of the landomycin E cluster in S. globisporus. <i>Chemistry and Biology</i> , 2004 , 11, 547-55		59
137	Ketopremithramycins and ketomithramycins, four new aureolic acid-type compounds obtained upon inactivation of two genes involved in the biosynthesis of the deoxysugar moieties of the antitumor drug mithramycin by Streptomyces argillaceus, reveal novel insights into post-PKS	16.4	59
136	tailoring steps of the mithramycin biosynthetic pathway. <i>Journal of the American Chemical Society</i> , Biosynthesis of the angiogenesis inhibitor borrelidin by Streptomyces parvulus TA055: insights into nitrile formation. <i>Molecular Microbiology</i> , 2004 , 52, 1745-56	4.1	58
135	Evidence from engineered gene fusions for the repeated use of a module in a modular polyketide synthase. <i>Chemical Communications</i> , 2003 , 2780-2	5.8	58
134	Engineering precursor metabolite pools for increasing production of antitumor mithramycins in Streptomyces argillaceus. <i>Metabolic Engineering</i> , 2013 , 20, 187-97	9.7	57
133	Deciphering biosynthesis of the RNA polymerase inhibitor streptolydigin and generation of glycosylated derivatives. <i>Chemistry and Biology</i> , 2009 , 16, 1031-44		57
132	Biosynthesis of the angiogenesis inhibitor borrelidin by Streptomyces parvulus TA055: cluster analysis and assignment of functions. <i>Chemistry and Biology</i> , 2004 , 11, 87-97		57
131	Characterization of two polyketide methyltransferases involved in the biosynthesis of the antitumor drug mithramycin by Streptomyces argillaceus. <i>Journal of Biological Chemistry</i> , 2000 , 275, 3065-74	5.4	56
130	Novel Hybrid Tetracenomycins through Combinatorial Biosynthesis Using a Glycosyltransferase Encoded by the elm Genes in Cosmid 16F4 and Which Shows a Broad Sugar Substrate Specificity. <i>Journal of the American Chemical Society</i> , 1998 , 120, 10596-10601	16.4	55
129	The Biosynthesis of Aureolic Acid Group Antibiotics. <i>Bioorganic Chemistry</i> , 1999 , 27, 41-54	5.1	53
128	Biosynthesis pathways for deoxysugars in antibiotic-producing actinomycetes: isolation, characterization and generation of novel glycosylated derivatives. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2005 , 9, 77-85	0.9	52

(2007-2005)

127	in the biosynthesis of the antitumor antibiotic landomycin E by Streptomyces globisporus 1912 supports the originally assigned structure for landomycinone. <i>Journal of Organic Chemistry</i> , 2005 ,	4.2	51
126	Analysis of a Streptomyces antibioticus chromosomal region involved in oleandomycin biosynthesis, which encodes two glycosyltransferases responsible for glycosylation of the macrolactone ring. <i>Molecular Genetics and Genomics</i> , 1998 , 259, 299-308		50
125	Biosynthesis of oleandomycin by Streptomyces antibioticus: influence of nutritional conditions and development of resistance. <i>Journal of General Microbiology</i> , 1990 , 136, 1447-54		49
124	Combining sugar biosynthesis genes for the generation of L- and D-amicetose and formation of two novel antitumor tetracenomycins. <i>Chemical Communications</i> , 2005 , 1604-6	5.8	48
123	Mithramycin analogues generated by combinatorial biosynthesis show improved bioactivity. Journal of Natural Products, 2008 , 71, 199-207	4.9	47
122	Characterization of two glycosyltransferases involved in early glycosylation steps during biosynthesis of the antitumor polyketide mithramycin by Streptomyces argillaceus. <i>Molecular Genetics and Genomics</i> , 2000 , 262, 991-1000		47
121	DNA binding characteristics of mithramycin and chromomycin analogues obtained by combinatorial biosynthesis. <i>Biochemistry</i> , 2010 , 49, 10543-52	3.2	46
120	Generation of potent and selective kinase inhibitors by combinatorial biosynthesis of glycosylated indolocarbazoles. <i>Chemical Communications</i> , 2009 , 4118-20	5.8	46
119	Deoxysugar methylation during biosynthesis of the antitumor polyketide elloramycin by Streptomyces olivaceus. Characterization of three methyltransferase genes. <i>Journal of Biological Chemistry</i> , 2001 , 276, 18765-74	5.4	46
118	Analysis of two chromosomal regions adjacent to genes for a type II polyketide synthase involved in the biosynthesis of the antitumor polyketide mithramycin in Streptomyces argillaceus. <i>Molecular Genetics and Genomics</i> , 1999 , 261, 216-25		46
117	ABC transporters in antibiotic-producing actinomycetes. FEMS Microbiology Letters, 1998, 158, 1-8	2.9	45
116	Genetic organization of the biosynthetic gene cluster for the antitumor angucycline oviedomycin in Streptomyces antibioticus ATCC 11891. <i>ChemBioChem</i> , 2004 , 5, 1181-7	3.8	45
115	Generation of new derivatives of the antitumor antibiotic mithramycin by altering the glycosylation pattern through combinatorial biosynthesis. <i>ChemBioChem</i> , 2008 , 9, 2295-304	3.8	44
114	Identification of transcriptional activators for thienamycin and cephamycin C biosynthetic genes within the thienamycin gene cluster from Streptomyces cattleya. <i>Molecular Microbiology</i> , 2008 , 69, 633-	-45 ¹	43
113	Production of landomycins in Streptomyces globisporus 1912 and S cyanogenus S136 is regulated by genes encoding putative transcriptional activators. <i>FEMS Microbiology Letters</i> , 2003 , 222, 149-53	2.9	43
112	Digitoxosyltetracenomycin C and glucosyltetracenomycin C, two novel elloramycin analogues obtained by exploring the sugar donor substrate specificity of glycosyltransferase ElmGT. <i>Journal of Natural Products</i> , 2002 , 65, 1685-9	4.9	43
111	Combinatorial biosynthesis of antitumor deoxysugar pathways in Streptomyces griseus: Reconstitution of "unnatural natural gene clusters" for the biosynthesis of four 2,6-D-dideoxyhexoses. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 6644-52	4.8	42
110	Entropically-driven binding of mithramycin in the minor groove of C/G-rich DNA sequences. <i>Nucleic Acids Research</i> , 2007 , 35, 2215-26	20.1	42

109	Characterization of a Streptomyces antibioticus gene cluster encoding a glycosyltransferase involved in oleandomycin inactivation. <i>Gene</i> , 1993 , 134, 139-40	3.8	42
108	Indolocarbazole antitumour compounds by combinatorial biosynthesis. <i>Current Opinion in Chemical Biology</i> , 2009 , 13, 152-60	9.7	41
107	Biosynthesis of the antitumor chromomycin A3 in Streptomyces griseus: analysis of the gene cluster and rational design of novel chromomycin analogs. <i>Chemistry and Biology</i> , 2004 , 11, 21-32		41
106	Functional analysis of OleY L-oleandrosyl 3-O-methyltransferase of the oleandomycin biosynthetic pathway in Streptomyces antibioticus. <i>Journal of Bacteriology</i> , 2001 , 183, 5358-63	3.5	41
105	Deoxysugar transfer during chromomycin A3 biosynthesis in Streptomyces griseus subsp. griseus: new derivatives with antitumor activity. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 167-77	4.8	40
104	Tailoring modification of deoxysugars during biosynthesis of the antitumour drug chromomycin A by Streptomyces griseus ssp. griseus. <i>Molecular Microbiology</i> , 2004 , 53, 903-15	4.1	40
103	The mtmVUC genes of the mithramycin gene cluster in Streptomyces argillaceus are involved in the biosynthesis of the sugar moieties. <i>Molecular Genetics and Genomics</i> , 2001 , 264, 827-35	3.1	40
102	Deoxysugars in bioactive natural products: development of novel derivatives by altering the sugar pattern. <i>Current Topics in Medicinal Chemistry</i> , 2008 , 8, 710-24	3	39
101	Glycosylated derivatives of steffimycin: insights into the role of the sugar moieties for the biological activity. <i>ChemBioChem</i> , 2008 , 9, 624-33	3.8	39
100	Engineering biosynthetic pathways to generate antitumor indolocarbazole derivatives. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006 , 33, 560-8	4.2	38
99	Deciphering the biosynthetic origin of the aglycone of the aureolic acid group of anti-tumor agents. <i>Chemistry and Biology</i> , 1996 , 3, 193-6		38
98	Biosynthesis of the angiogenesis inhibitor borrelidin: directed biosynthesis of novel analogues. <i>Chemical Communications</i> , 2006 , 2341-3	5.8	37
97	Genome Mining of Streptomyces sp. Tlb176: Characterization of the Nataxazole Biosynthesis Pathway. <i>ChemBioChem</i> , 2015 , 16, 1461-73	3.8	35
96	Elucidating the biosynthetic pathway for the polyketide-nonribosomal peptide collismycin A: mechanism for formation of the 2,2Rbipyridyl ring. <i>Chemistry and Biology</i> , 2012 , 19, 399-413		35
95	Separation of anti-angiogenic and cytotoxic activities of borrelidin by modification at the C17 side chain. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 5814-7	2.9	35
94	Biosynthesis of the Antitumor Chromomycin A3 in Streptomyces griseusAnalysis of the Gene Cluster and Rational Design of Novel Chromomycin Analogs. <i>Chemistry and Biology</i> , 2004 , 11, 21-32		35
93	Biosynthesis of elloramycin in Streptomyces olivaceus requires glycosylation by enzymes encoded outside the aglycon cluster. <i>Microbiology (United Kingdom)</i> , 2008 , 154, 781-788	2.9	34
92	Involvement of a chromomycin ABC transporter system in secretion of a deacetylated precursor during chromomycin biosynthesis. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 3061-3070	2.9	33

91	Hybridization and DNA sequence analyses suggest an early evolutionary divergence of related biosynthetic gene sets encoding polyketide antibiotics and spore pigments in Streptomyces spp. <i>Gene</i> , 1993 , 130, 107-16	3.8	32
90	Reactome array: forging a link between metabolome and genome. <i>Science</i> , 2009 , 326, 252-7	33.3	30
89	Engineered biosynthesis of gilvocarcin analogues with altered deoxyhexopyranose moieties. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 435-41	4.8	29
88	Oviedomycin, an unusual angucyclinone encoded by genes of the oleandomycin-producer Streptomyces antibioticus ATCC11891. <i>Journal of Natural Products</i> , 2002 , 65, 779-82	4.9	29
87	Synthesis of ribosomal proteins during growth of Streptomyces coelicolor. <i>Molecular Microbiology</i> , 1994 , 12, 375-85	4.1	29
86	Elucidation of oxygenation steps during oviedomycin biosynthesis and generation of derivatives with increased antitumor activity. <i>ChemBioChem</i> , 2009 , 10, 296-303	3.8	28
85	Parallel pathways for oxidation of 14-membered polyketide macrolactones in Saccharopolyspora erythraea. <i>Molecular Microbiology</i> , 2002 , 44, 771-81	4.1	28
84	Uncovering production of specialized metabolites by Streptomyces argillaceus: Activation of cryptic biosynthesis gene clusters using nutritional and genetic approaches. <i>PLoS ONE</i> , 2018 , 13, e0198	143	28
83	Tetracenomycin M, a Novel Genetically Engineered Tetracenomycin Resulting from a Combination of Mithramycin and Tetracenomycin Biosynthetic Genes. <i>Chemistry - A European Journal</i> , 1997 , 3, 1675-	1 67 8	27
82	Molecular insights on the biosynthesis of antitumour compounds by actinomycetes. <i>Microbial Biotechnology</i> , 2011 , 4, 144-64	6.3	26
81	An ABC transporter is essential for resistance to the antitumor agent mithramycin in the producer Streptomyces argillaceus. <i>Molecular Genetics and Genomics</i> , 1996 , 251, 692-8		26
8o	Engineering the biosynthesis of the polyketide-nonribosomal peptide collismycin A for generation of analogs with neuroprotective activity. <i>Chemistry and Biology</i> , 2013 , 20, 1022-32		25
79	Expanding the Chemical Diversity of the Antitumoral Compound Mithramycin by Combinatorial Biosynthesis and Biocatalysis: The Quest for Mithralogs with Improved Therapeutic Window. <i>Planta Medica</i> , 2015 , 81, 1326-38	3.1	25
78	Biosynthesis of the RNA polymerase inhibitor streptolydigin in Streptomyces lydicus: tailoring modification of 3-methyl-aspartate. <i>Journal of Bacteriology</i> , 2011 , 193, 2647-51	3.5	24
77	Metabolic engineering of the heterologous production of clorobiocin derivatives and elloramycin in Streptomyces coelicolor M512. <i>Metabolic Engineering</i> , 2006 , 8, 653-61	9.7	24
76	An ATP-binding cassette transporter and two rRNA methyltransferases are involved in resistance to avilamycin in the producer organism Streptomyces viridochromogenes TB7. <i>Antimicrobial Agents and Chemotherapy</i> , 2001 , 45, 690-5	5.9	24
75	Amino acid precursor supply in the biosynthesis of the RNA polymerase inhibitor streptolydigin by Streptomyces lydicus. <i>Journal of Bacteriology</i> , 2011 , 193, 4214-23	3.5	23
74	Interaction between ATP, oleandomycin and the OleB ATP-binding cassette transporter of Streptomyces antibioticus involved in oleandomycin secretion. <i>Biochemical Journal</i> , 1997 , 321 (Pt 1), 139-44	3.8	23

73	Elucidation of the glycosylation sequence of mithramycin biosynthesis: isolation of 3A-deolivosylpremithramycin B and its conversion to premithramycin B by glycosyltransferase MtmGII. <i>ChemBioChem</i> , 2005 , 6, 632-6	3.8	23
72	Cloning and disruption of a fragment of Streptomyces halstedii DNA involved in the biosynthesis of a spore pigment. <i>Gene</i> , 1992 , 112, 59-65	3.8	23
71	Caboxamycin biosynthesis pathway and identification of novel benzoxazoles produced by cross-talk in Streptomyces sp. NTK 937. <i>Microbial Biotechnology</i> , 2017 , 10, 873-885	6.3	22
70	Identification by Genome Mining of a Type I Polyketide Gene Cluster from Involved in the Biosynthesis of Pyridine and Piperidine Alkaloids Argimycins P. <i>Frontiers in Microbiology</i> , 2017 , 8, 194	5.7	22
69	Genetic manipulation of antitumor-agent biosynthesis to produce novel drugs. <i>Trends in Biotechnology</i> , 1998 , 16, 475-82	15.1	22
68	Mithramycin SK modulates polyploidy and cell death in colon carcinoma cells. <i>Molecular Cancer Therapeutics</i> , 2008 , 7, 2988-97	6.1	22
67	Insights in the glycosylation steps during biosynthesis of the antitumor anthracycline cosmomycin: characterization of two glycosyltransferase genes. <i>Applied Microbiology and Biotechnology</i> , 2006 , 73, 122-31	5.7	22
66	The structures of premithramycinone and demethylpremithramycinone, plausible early intermediates of the aureolic acid group antibiotic mithramycin. <i>Chemical Communications</i> , 1998 , 437-4	3 ₹ ⁸	22
65	Characterization and engineering of the biosynthesis gene cluster for antitumor macrolides PM100117 and PM100118 from a marine actinobacteria: generation of a novel improved derivative. <i>Microbial Cell Factories</i> , 2016 , 15, 44	6.4	21
64	On the generation of novel anticancer drugs by recombinant DNA technology: the use of combinatorial biosynthesis to produce novel drugs. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2003 , 6, 513-26	1.3	21
63	New insights into paulomycin biosynthesis pathway in Streptomyces albus J1074 and generation of novel derivatives by combinatorial biosynthesis. <i>Microbial Cell Factories</i> , 2016 , 15, 56	6.4	21
62	The chromomycin CmmA acetyltransferase: a membrane-bound enzyme as a tool for increasing structural diversity of the antitumour mithramycin. <i>Microbial Biotechnology</i> , 2011 , 4, 226-38	6.3	20
61	DNA-binding properties of cosmomycin D, an anthracycline with two trisaccharide chains. <i>Journal of Antibiotics</i> , 2004 , 57, 647-54	3.7	20
60	A hydroxylase-like gene product contributes to synthesis of a polyketide spore pigment in Streptomyces halstedii. <i>Journal of Bacteriology</i> , 1993 , 175, 8043-8	3.5	20
59	The Novel Hybrid Antitumor Compound Premithramycinone H Provides Indirect Evidence for a Tricyclic Intermediate of the Biosynthesis of the Aureolic Acid Antibiotic Mithramycin. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 796-799	16.4	19
58	Insertional inactivation of mtrX and mtrY genes from the mithramycin gene cluster affects production and growth of the producer organism Streptomyces argillaceus. <i>FEMS Microbiology Letters</i> , 2000 , 186, 61-5	2.9	18
57	Mutation and cloning of clustered Streptomyces genes essential for sulphate metabolism. <i>Molecular Genetics and Genomics</i> , 1988 , 211, 415-423		18
56	Transcriptional regulation of mithramycin biosynthesis in Streptomyces argillaceus: dual role as activator and repressor of the PadR-like regulator MtrY. <i>Microbiology (United Kingdom)</i> , 2015 , 161, 272-	288	16

55	Novel mithramycins abrogate the involvement of protein factors in the transcription of cell cycle control genes. <i>Biochemical Pharmacology</i> , 2012 , 84, 1133-42	6	16	
54	Folding of the polyketide chain is not dictated by minimal polyketide synthase in the biosynthesis of mithramycin and anthracycline. <i>Chemistry and Biology</i> , 1997 , 4, 751-5		16	
53	Elucidation of the glycosylation steps during biosynthesis of antitumor macrolides PM100117 and PM100118 and engineering for novel derivatives. <i>Microbial Cell Factories</i> , 2016 , 15, 187	6.4	15	
52	Searching for Glycosylated Natural Products in Actinomycetes and Identification of Novel Macrolactams and Angucyclines. <i>Frontiers in Microbiology</i> , 2018 , 9, 39	5.7	15	
51	Mutational analysis of the thienamycin biosynthetic gene cluster from Streptomyces cattleya. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 1638-49	5.9	15	
50	Novel compounds produced by Streptomyces lydicus NRRL 2433 engineered mutants altered in the biosynthesis of streptolydigin. <i>Journal of Antibiotics</i> , 2012 , 65, 341-8	3.7	14	
49	Modulation of deoxysugar transfer by the elloramycin glycosyltransferase ElmGT through site-directed mutagenesis. <i>Journal of Bacteriology</i> , 2009 , 191, 2871-5	3.5	14	
48	Involvement of the beta subunit of RNA polymerase in resistance to streptolydigin and streptovaricin in the producer organisms Streptomyces lydicus and Streptomyces spectabilis. <i>Antimicrobial Agents and Chemotherapy</i> , 2010 , 54, 1684-92	5.9	13	
47	Three pathway-specific regulators control streptolydigin biosynthesis in Streptomyces lydicus. <i>Microbiology (United Kingdom)</i> , 2012 , 158, 2504-2514	2.9	13	
46	Laccase-catalysed biotransformation of collismycin derivatives. A novel enzymatic approach for the cleavage of oximes. <i>Green Chemistry</i> , 2016 , 18, 989-994	10	12	
45	New Insights into the Biosynthesis Pathway of Polyketide Alkaloid Argimycins P in. <i>Frontiers in Microbiology</i> , 2018 , 9, 252	5.7	12	
44	Characterization of the ATPase activity of the N-terminal nucleotide binding domain of an ABC transporter involved in oleandomycin secretion by Streptomyces antibioticus. <i>FEMS Microbiology Letters</i> , 1996 , 141, 157-62	2.9	12	
43	High-Quality Draft Genome Sequence of the Actinobacterium Nocardia terpenica IFM 0406, Producer of the Immunosuppressant Brasilicardins, Using Illumina and PacBio Technologies. <i>Genome Announcements</i> , 2016 , 4,		12	
42	Cellular response and activation of apoptosis by mithramycin SK in p21(WAF1)-deficient HCT116 human colon carcinoma cells. <i>Cancer Letters</i> , 2010 , 292, 80-90	9.9	11	
41	Chapter 11. Sugar biosynthesis and modification. <i>Methods in Enzymology</i> , 2009 , 458, 277-307	1.7	11	
40	Differential inhibition of restriction enzyme cleavage by chromophore-modified analogues of the antitumour antibiotics mithramycin and chromomycin reveals structure-activity relationships. <i>Biochemical Pharmacology</i> , 2010 , 79, 1418-27	6	11	
39	Increasing antibiotic production yields by favoring the biosynthesis of precursor metabolites glucose-1-phosphate and/or malonyl-CoA in Streptomyces producer strains. <i>Journal of Antibiotics</i> , 2016 , 69, 179-82	3.7	10	
38	Collismycin A biosynthesis in Streptomyces sp. CS40 is regulated by iron levels through two pathway-specific regulators. <i>Microbiology (United Kingdom)</i> , 2014 , 160, 467-478	2.9	10	

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(2021-2000)

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