Andriy Luzhetskyy

List of Publications by Year
in descending order

134	5,976	81900	88630
papers	citations	39 h-index	70 g-index

138	138	138	5027
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Total In Vitro Biosynthesis of the Thioamitide Thioholgamide and Investigation of the Pathway. Journal of the American Chemical Society, 2022, 144, 5136-5144.	13.7	19
2	Novel Biosynthetic Route to the Isoquinoline Scaffold. ACS Chemical Biology, 2022, 17, 598-608.	3.4	3
3	Scandiumâ€“microorganism interactions in new biotechnologies. Trends in Biotechnology, 2022, 40, 1088-1101.	9.3	7
4	Multiple copies of the oxytetracycline gene cluster in selected Streptomyces rimosus strains can provide significantly increased titers. Microbial Cell Factories, 2021, 20, 47.	4.0	5
5	Genetically engineered rpsL merodiploidy impacts secondary metabolism and antibiotic resistance in Streptomyces. World Journal of Microbiology and Biotechnology, 2021, 37, 62.	3.6	5
6	Microparticles enhance the formation of seven major classes of natural products in native and metabolically engineered actinobacteria through accelerated morphological development. Biotechnology and Bioengineering, 2021, 118, 3076-3093.	3.3	15
7	Discovery and Heterologous Production of New Cyclic Depsibosamycins. Microorganisms, 2021, 9, 1396.	3.6	2
8	Superior production of heavy pamamycin derivatives using a bkdR deletion mutant of Streptomyces albus J1074/R2. Microbial Cell Factories, 2021, 20, 111.	4.0	11
9	Cyclofaulknamycin with the Rare Amino Acid D-capreomycidine Isolated from a Well-Characterized Streptomyces albus Strain. Microorganisms, 2021, 9, 1609.	3.6	3
10	Bonsecamin: A New Cyclic Pentapeptide Discovered through Heterologous Expression of a Cryptic Gene Cluster. Microorganisms, 2021, 9, 1640.	3.6	3
11	Towards the sustainable discovery and development of new antibiotics. Nature Reviews Chemistry, 2021, 5, 726-749.	30.2	439
12	The diversity and antibacterial activity of culturable actinobacteria isolated from the rhizosphere soil of Deschampsia antarctica (Galindez Island, Maritime Antarctic). Polar Biology, 2021, 44, 1859-1868.	1.2	5
13	Engineering the precursor pool to modulate the production of pamamycins in the heterologous host S. albus J1074. Metabolic Engineering, 2021, 67, 11-18.	7.0	7
14	New Scabimycins A-C Isolated from Streptomyces acidiscabies (Lu19992). Molecules, 2021, 26, 5922.	3.8	1
15	A Promiscuous Halogenase for the Derivatization of Flavonoids. Molecules, 2021, 26, 6220.	3.8	4
16	New Kendomycin Derivative Isolated from Streptomyces sp. CI 58-27. Molecules, 2021, 26, 6834.	3.8	3
17	Engineering Corynebacterium glutamicum with a comprehensive genomic library and phage-based vectors. Metabolic Engineering, 2020, 62, 221-234.	7.0	4
18	Non-Heme Monooxygenase ThoJ Catalyzes Thioholgamide Î²-Hydroxylation. ACS Chemical Biology, 2020, 15, 2815-2819.	3.4	9

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19	Dudomycins: New Secondary Metabolites Produced after Heterologous Expression of an Nrps Cluster from Streptomyces albus ssp. Chlorinus Nrrl B-24108. Microorganisms, 2020, 8, 1800.	3.6	4
20	Identification of a Biosynthetic Gene Cluster Responsible for the Production of a New Pyrrolopyrimidine Natural Productâ€"Huimycin. Biomolecules, 2020, 10, 1074.	4.0	11
21	Loseolamycins: A Group of New Bioactive Alkylresorcinols Produced after Heterologous Expression of a Type III PKS from Micromonospora endolithica. Molecules, 2020, 25, 4594.	3.8	7
22	Microparticles globallyÂreprogram Streptomyces albus toward accelerated morphogenesis, streamlined carbon core metabolism, and enhanced production of the antituberculosis polyketide pamamycin. Biotechnology and Bioengineering, 2020, 117, 3858-3875.	3.3	22
23	Targeted Genome Miningâ€"From Compound Discovery to Biosynthetic Pathway Elucidation. Microorganisms, 2020, 8, 2034.	3.6	3
24	Baikalomycins A-C, New Aquayamycin-Type Angucyclines Isolated from Lake Baikal Derived Streptomyces sp. IB201691-2A. Microorganisms, 2020, 8, 680.	3.6	19
25	Novel Fredericamycin Variant Overproduced by a Streptomycin-Resistant Streptomyces albus subsp. chlorinus Strain. Marine Drugs, 2020, 18, 284.	4.6	10
26	The bottromycin epimerase BotH defines a group of atypical Î±/Î²-hydrolase-fold enzymes. Nature Chemical Biology, 2020, 16, 1013-1018.	8.0	18
27	Identification and Heterologous Expression of the Albucidin Gene Cluster from the Marine Strain Streptomyces Albus Subsp. Chlorinus NRRL B-24108. Microorganisms, 2020, 8, 237.	3.6	18
28	Engineering of Streptomyces lividans for heterologous expression of secondary metabolite gene clusters. Microbial Cell Factories, 2020, 19, 5.	4.0	68
29	Thioholgamide A, a New Anti-Proliferative Anti-Tumor Agent, Modulates Macrophage Polarization and Metabolism. Cancers, 2020, 12, 1288.	3.7	22
30	Back Cover Image, Volume 117, Number 12, December 2020. Biotechnology and Bioengineering, 2020, 117, .	3.3	0
31	Perquinolineâ€…Aâ€“C: neuartige bakterielle Tetrahydroisochinoline mit einer bemerkenswerten Biosynthese. Angewandte Chemie, 2019, 131, 13063-13068.	2.0	0
32	Effect of â€œribosome engineeringâ€•on the transcription level and production of S. albus indigenous secondary metabolites. Applied Microbiology and Biotechnology, 2019, 103, 7097-7110.	3.6	23
33	Perquinolines Aâ€“C: Unprecedented Bacterial Tetrahydroisoquinolines Involving an Intriguing Biosynthesis. Angewandte Chemie - International Edition, 2019, 58, 12930-12934.	13.8	10
34	Heterologous production of small molecules in the optimizedStreptomyceshosts. Natural Product Reports, 2019, 36, 1281-1294.	10.3	65
35	Gene miaA for postâ€transcriptional modification of tRNA_{XXA} is important for morphological and metabolic differentiation in Streptomyces. Molecular Microbiology, 2019, 112, 249-265.	2.5	26
36	Genome Engineering Approaches to Improve Nosokomycin A Production by Streptomyces ghanaensis B38.3. Indian Journal of Microbiology, 2019, 59, 109-111.	2.7	3

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37	Benzanthric Acid, a Novel Metabolite From Streptomyces albus Del14 Expressing the Nybomycin Gene Cluster. Frontiers in Chemistry, 2019, 7, 896.	3.6	15
38	Gene ssfg_01967 (miaB) for tRNA modification influences morphogenesis and moenomycin biosynthesis in Streptomyces ghanaensis ATCC14672. Microbiology (United Kingdom), 2019, 165, 233-245.	1.8	11
39	A set of synthetic versatile genetic control elements for the efficient expression of genes in Actinobacteria. Scientific Reports, 2018, 8, 491.	3.3	50
40	Design, development and application of whole-cell based antibiotic-specific biosensor. Metabolic Engineering, 2018, 47, 263-270.	7.0	33
41	Enabling the valorization of guaiacol-based lignin: Integrated chemical and biochemical production of cis,cis-muconic acid using metabolically engineered Amycolatopsis sp ATCC 39116. Metabolic Engineering, 2018, 45, 200-210.	7.0	125
42	Heterologous Expression of the Nybomycin Gene Cluster from the Marine Strain Streptomyces albus subsp. chlorinus NRRL B-24108. Marine Drugs, 2018, 16, 435.	4.6	22
43	Monitoring Protein Secretion in Streptomyces Using Fluorescent Proteins. Frontiers in Microbiology, 2018, 9, 3019.	3.5	11
44	Characterization of Sigma Factor Genes in Streptomyces lividans TK24 Using a Genomic Library-Based Approach for Multiple Gene Deletions. Frontiers in Microbiology, 2018, 9, 3033.	3.5	23
45	Generation of a cluster-free Streptomyces albus chassis strains for improved heterologous expression of secondary metabolite clusters. Metabolic Engineering, 2018, 49, 316-324.	7.0	140
46	Secondary metabolites overproduction through transcriptional gene cluster refactoring. Metabolic Engineering, 2018, 49, 299-315.	7.0	63
47	Heterologous AdpA transcription factors enhance landomycin production in Streptomyces cyanogenus S136 under a broad range of growth conditions. Applied Microbiology and Biotechnology, 2018, 102, 8419-8428.	3.6	22
48	Multi-Omics and Targeted Approaches to Determine the Role of Cellular Proteases in Streptomyces Protein Secretion. Frontiers in Microbiology, 2018, 9, 1174.	3.5	29
49	New Alpiniamides From Streptomyces sp. IB2014/011-12 Assembled by an Unusual Hybrid Non-ribosomal Peptide Synthetase Trans-AT Polyketide Synthase Enzyme. Frontiers in Microbiology, 2018, 9, 1959.	3.5	19
50	Development of a Biosensor Concept to Detect the Production of Cluster-Specific Secondary Metabolites. ACS Synthetic Biology, 2017, 6, 1026-1033.	3.8	28
51	Chromosomal position effect influences the heterologous expression of genes and biosynthetic gene clusters in Streptomyces albus J1074. Microbial Cell Factories, 2017, 16, 5.	4.0	34
52	New natural products identified by combined genomics-metabolomics profiling of marine Streptomyces sp. MP131-18. Scientific Reports, 2017, 7, 42382.	3.3	86
53	Cloning and Expression of Metagenomic DNA in Streptomyces lividans and Subsequent Fermentation for Optimized Production. Methods in Molecular Biology, 2017, 1539, 99-144.	0.9	36
54	Properties of Streptomyces albus J1074 mutant deficient in tRNALeu UAA gene bldA. Archives of Microbiology, 2017, 199, 1175-1183.	2.2	24

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55	Complete Draft Genome Sequence of the Actinobacterium Nocardiopsis sinuspersici UTMC102 (DSM) Tj ETQq1 1 0.784314 rgBT /Ov	0.8	1
56	Identification of butenolide regulatory system controlling secondary metabolism in Streptomyces albus J1074. Scientific Reports, 2017, 7, 9784.	3.3	34
57	Streptomyces albus: A New Cell Factory for Non-Canonical Amino Acids Incorporation into Ribosomally Synthesized Natural Products. ACS Chemical Biology, 2017, 12, 2362-2370.	3.4	38
58	Cloning and Heterologous Expression of the Grecocycline Biosynthetic Gene Cluster. PLoS ONE, 2016, 11, e0158682.	2.5	61
59	A gene cluster for the biosynthesis of moenomycin family antibiotics in the genome of teicoplanin producer Actinoplanes teichomyceticus. Applied Microbiology and Biotechnology, 2016, 100, 7629-7638.	3.6	12
60	Metabolic engineering of natural product biosynthesis in actinobacteria. Current Opinion in Biotechnology, 2016, 42, 98-107.	6.6	66
61	Dual control system â€“ A novel scaffolding architecture of an inducible regulatory device for the precise regulation of gene expression. Metabolic Engineering, 2016, 37, 11-23.	7.0	31
62	Native and engineered promoters in natural product discovery. Natural Product Reports, 2016, 33, 1006-1019.	10.3	97
63	Generation of new compounds through unbalanced transcription of landomycin A cluster. Applied Microbiology and Biotechnology, 2016, 100, 9175-9186.	3.6	24
64	An influence of the copy number of biosynthetic gene clusters on the production level of antibiotics in a heterologous host. Journal of Biotechnology, 2016, 232, 110-117.	3.8	18
65	Characterization of the Post-Assembly Line Tailoring Processes in Teicoplanin Biosynthesis. ACS Chemical Biology, 2016, 11, 2254-2264.	3.4	18
66	New Simocyclinones: Surprising Evolutionary and Biosynthetic Insights. ACS Chemical Biology, 2016, 11, 241-250.	3.4	26
67	The isolation and characterization of actinobacteria from dominant benthic macroinvertebrates endemic to Lake Baikal. Folia Microbiologica, 2016, 61, 159-168.	2.3	15
68	The adpA-like regulatory gene from Actinoplanes teichomyceticus: in silico analysis and heterologous expression. World Journal of Microbiology and Biotechnology, 2015, 31, 1297-1301.	3.6	10
69	Insights into the Pamamycin Biosynthesis. Angewandte Chemie - International Edition, 2015, 54, 2280-2284.	13.8	27
70	Endophytic Streptomyces in the traditional medicinal plant Arnica montana L.: secondary metabolites and biological activity. Antonie Van Leeuwenhoek, 2015, 108, 391-402.	1.7	13
71	Minimum Information about a Biosynthetic Gene cluster. Nature Chemical Biology, 2015, 11, 625-631.	8.0	715
72	Novel and tightly regulated resorcinol and cumate-inducible expression systems for Streptomyces and other actinobacteria. Applied Microbiology and Biotechnology, 2014, 98, 8641-8655.	3.6	61

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73	The pathway-specific regulatory genes, tei15* and tei16*, are the master switches of teicoplanin production in Actinoplanes teichomyceticus. Applied Microbiology and Biotechnology, 2014, 98, 9295-9309.	3.6	36
74	Complete genome sequence of producer of the glycopeptide antibiotic Aculeximycin Kutzneria albida DSM 43870T, a representative of minor genus of Pseudonocardiaceae. BMC Genomics, 2014, 15, 885.	2.8	26
75	Actinomycetes biosynthetic potential: how to bridge in silico and in vivo?. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 387-402.	3.0	63
76	Unusual site-specific DNA integration into the highly active pseudo-attB of the Streptomyces albus J1074 genome. Applied Microbiology and Biotechnology, 2014, 98, 5095-5104.	3.6	42
77	Genome rearrangements of Streptomyces albus J1074 lead to the carotenoid gene cluster activation. Applied Microbiology and Biotechnology, 2014, 98, 795-806.	3.6	30
78	Iterative marker excision system. Applied Microbiology and Biotechnology, 2014, 98, 4557-4570.	3.6	49
79	Insights into naturally minimised Streptomyces albus J1074 genome. BMC Genomics, 2014, 15, 97.	2.8	137
80	Amycomycins C and D, new angucyclines from Kitasatospora sp.. Tetrahedron Letters, 2014, 55, 5771-5773.	1.4	4
81	Oleamycins A and B: new antibacterial cyclic hexadepsipeptides isolated from a terrestrial Streptomyces sp.. Journal of Antibiotics, 2014, 67, 339-343.	2.0	21
82	Regio- and Stereoselective Intermolecular Oxidative Phenol Coupling in Streptomyces. Journal of the American Chemical Society, 2014, 136, 6195-6198.	13.7	63
83	Lorneic acids C and D, new trialkyl-substituted aromatic acids isolated from a terrestrial Streptomyces sp.. Journal of Antibiotics, 2013, 66, 347-349.	2.0	10
84	Design, construction and characterisation of a synthetic promoter library for fine-tuned gene expression in actinomycetes. Metabolic Engineering, 2013, 19, 98-106.	7.0	172
85	In vivo random mutagenesis of streptomycetes using mariner-based transposon Himar1. Applied Microbiology and Biotechnology, 2013, 97, 351-359.	3.6	27
86	Tracking Down Biotransformation to the Genetic Level: Identification of a Highly Flexible Glycosyltransferase from Saccharothrix espanaensis. Applied and Environmental Microbiology, 2013, 79, 5224-5232.	3.1	13
87	Rubimycinone A, a new anthraquinone from a terrestrial Streptomyces sp.. Tetrahedron Letters, 2013, 54, 900-902.	1.4	8
88	Evaluation of heterologous promoters for genetic analysis of Actinoplanes teichomyceticusâ€"Producer of teicoplanin, drug of last defense. Journal of Biotechnology, 2013, 168, 367-372.	3.8	26
89	A transposon-based strategy to identify the regulatory gene network responsible for landomycin E biosynthesis. FEMS Microbiology Letters, 2013, 342, 138-146.	1.8	16
90	Genome engineering in actinomycetes using site-specific recombinases. Applied Microbiology and Biotechnology, 2013, 97, 4701-4712.	3.6	16

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91	Oleaceran: A Novel Spiro[isobenzofuran-1,2â€²-naptho[1,8-bc]furan] Isolated from a Terrestrial Streptomyces sp.. Organic Letters, 2013, 15, 3487-3489.	4.6	23
92	<scp>MoeH</scp>5: a natural glycorandomizer from the moenomycin biosynthetic pathway. Molecular Microbiology, 2013, 90, 1324-1338.	2.5	13
93	Pleiotropic regulatory genes bldA , adpA and absB are implicated in production of phosphoglycolipid antibiotic moenomycin. Open Biology, 2013, 3, 130121.	3.6	56
94	Site-Specific Recombination Strategies for Engineering Actinomycete Genomes. Applied and Environmental Microbiology, 2012, 78, 1804-1812.	3.1	88
95	Juniperolide A: A New Polyketide Isolated from a Terrestrial Actinomycete, Streptomyces sp.. Organic Letters, 2012, 14, 5860-5863.	4.6	15
96	Leopolic acid A, isolated from a terrestrial actinomycete, Streptomyces sp.. Tetrahedron Letters, 2012, 53, 6300-6301.	1.4	18
97	Actinomycetes genome engineering approaches. Antonie Van Leeuwenhoek, 2012, 102, 503-516.	1.7	26
98	SimReg1 is a master switch for biosynthesis and export of simocyclinone D8 and its precursors. AMB Express, 2012, 2, 1.	3.0	89
99	Pimprinols Aâ€“C, from the terrestrial actinomycete, Streptomyces sp.. Tetrahedron Letters, 2012, 53, 3009-3011.	1.4	23
100	Rational Design of an Aryl-C-Glycoside Catalyst from a Natural Product O-Glycosyltransferase. Chemistry and Biology, 2011, 18, 520-530.	6.0	58
101	Î²-Glucuronidase as a Sensitive and Versatile Reporter in Actinomycetes. Applied and Environmental Microbiology, 2011, 77, 5370-5383.	3.1	182
102	Characterization and analysis of the regulatory network involved in control of lipomycin biosynthesis in Streptomyces aureofaciens TÃ¼117. Applied Microbiology and Biotechnology, 2010, 85, 1069-1079.	3.6	17
103	I-SceI endonuclease: a new tool for DNA repair studies and genetic manipulations in streptomycetes. Applied Microbiology and Biotechnology, 2010, 87, 1525-1532.	3.6	40
104	Cloning and Sequencing of the Biosynthetic Gene Cluster for Saquayamycin Z and Galtamycin B and the Elucidation of the Assembly of Their Saccharide Chains. ChemBioChem, 2009, 10, 1392-1401.	2.6	35
105	Differences in the substrate specificity of glycosyltransferases involved in landomycins A and E biosynthesis. Applied Microbiology and Biotechnology, 2009, 83, 1067-1076.	3.6	14
106	In vivo Tn5-based transposon mutagenesis of Streptomycetes. Applied Microbiology and Biotechnology, 2009, 83, 979-986.	3.6	26
107	Engineering a Function into a Glycosyltransferase. Chemistry and Biology, 2009, 16, 28-35.	6.0	38
108	Function of lanI in regulation of landomycin A biosynthesis in Streptomyces cyanogenus S136 and cross-complementation studies with Streptomyces antibiotic regulatory proteins encoding genes. Archives of Microbiology, 2008, 189, 111-120.	2.2	27

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109	Functional expression of the Cre recombinase in actinomycetes. Applied Microbiology and Biotechnology, 2008, 78, 1065-1070.	3.6	56
110	Aranciamycin analogs generated by combinatorial biosynthesis show improved antitumor activity. Applied Microbiology and Biotechnology, 2008, 80, 15-19.	3.6	17
111	Features and applications of bacterial glycosyltransferases: current state and prospects. Applied Microbiology and Biotechnology, 2008, 80, 945-952.	3.6	38
112	Coordination of export and glycosylation of landomycins inStreptomyces cyanogenusS136. FEMS Microbiology Letters, 2008, 285, 195-202.	1.8	41
113	Marker removal from actinomycetes genome using Flp recombinase. Gene, 2008, 419, 43-47.	2.2	52
114	Glycosyltransferases, Important Tools for Drug Design. Current Topics in Medicinal Chemistry, 2008, 8, 680-709.	2.1	70
115	Deoxysugars in Bioactive Natural Products: Development of Novel Derivatives by Altering the Sugar Pattern. Current Topics in Medicinal Chemistry, 2008, 8, 710-724.	2.1	43
116	Type II polyketide synthases: gaining a deeper insight into enzymatic teamwork. Natural Product Reports, 2007, 24, 162-190.	10.3	513
117	Generation of New Landomycins with Altered Saccharide Patterns through Over-expression of the Glycosyltransferase GenelanGT3 in the Biosynthetic Gene Cluster of Landomycin A inStreptomyces cyanogenus S-136. ChemBioChem, 2007, 8, 83-88.	2.6	51
118	Cloning and Heterologous Expression of the Aranciamycin Biosynthetic Gene Cluster Revealed a New Flexible Glycosyltransferase. ChemBioChem, 2007, 8, 599-602.	2.6	48
119	A strategy for cloning glycosyltransferase genes involved in natural product biosynthesis. Applied Microbiology and Biotechnology, 2007, 75, 1367-1375.	3.6	18
120	Cloning, purification and characterization of a functional anthracycline glycosyltransferase. Journal of Biotechnology, 2006, 125, 425-433.	3.8	10
121	A putative proteinase gene is involved in regulation of landomycin E biosynthesis inStreptomyces globisporus1912. FEMS Microbiology Letters, 2006, 255, 280-285.	1.8	9
122	Biosynthesis of the Terpene Phenalinolactone in Streptomyces sp. TÃ¼6071: Analysis of the Gene Cluster and Generation of Derivatives. Chemistry and Biology, 2006, 13, 365-377.	6.0	71
123	On the Acceptor Substrate of C-Glycosyltransferase UrdGT2: Three Prejadomycin C-Glycosides from an Engineered Mutant ofStreptomyces globisporus 1912 Î”lndE(urdGT2). Angewandte Chemie - International Edition, 2006, 45, 7842-7846.	13.8	36
124	Iteratively Acting Glycosyltransferases Involved in the Hexasaccharide Biosynthesis of Landomycin A. Chemistry and Biology, 2005, 12, 725-729.	6.0	54
125	It works: combinatorial biosynthesis for generating novel glycosylated compounds. Molecular Microbiology, 2005, 58, 3-5.	2.5	18
126	Generation of Novel Landomycins M and O through Targeted Gene Disruption. ChemBioChem, 2005, 6, 675-678.	2.6	43

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127	LanGT2 Catalyzes the First Glycosylation Step during Landomycin A Biosynthesis. ChemBioChem, 2005, 6, 1406-1410.	2.6	47
128	LanV, a Bifunctional Enzyme: Aromatase and Ketoreductase during Landomycin A Biosynthesis. ChemBioChem, 2005, 6, 2312-2315.	2.6	19
129	Identification of the Function of GeneIndM2Encoding a Bifunctional Oxygenase-Reductase Involved in the Biosynthesis of the Antitumor Antibiotic Landomycin E byStreptomyces globisporus1912 Supports the Originally Assigned Structure for Landomycinone. Journal of Organic Chemistry, 2005, 70, 631-638.	3.2	52
130	Glycosyltransferases involved in the biosynthesis of biologically active natural products that contain oligosaccharides. Molecular BioSystems, 2005, 1, 117.	2.9	51
131	Expression of the landomycin biosynthetic gene cluster in a PKS mutant of Streptomyces fradiae is dependent on the coexpression of a putative transcriptional activator gene. FEMS Microbiology Letters, 2004, 230, 91-97.	1.8	43
132	Function of lanGT3, a Glycosyltransferase Gene Involved in Landomycin A Biosynthesis. ChemBioChem, 2004, 5, 1567-1570.	2.6	29
133	Generation of New Landomycins by Combinatorial Biosynthetic Manipulation of the LndGT4 Gene of the Landomycin E Cluster in S. globisporus. Chemistry and Biology, 2004, 11, 547-555.	6.0	63
134	Generation of Streptomyces globisporus SMY622 Strain with Increased Landomycin E Production and It's Initial Characterization. Journal of Antibiotics, 2004, 57, 383-389.	2.0	20