

Bertrand Aigle

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

5,240
citations

304368

22
h-index

360668

35
g-index

38
all docs

38
docs citations

38
times ranked

7291
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016, 34, 828-837.	9.4	2,802
2	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015, 11, 625-631.	3.9	715
3	Towards the sustainable discovery and development of new antibiotics. <i>Nature Reviews Chemistry</i> , 2021, 5, 726-749.	13.8	439
4	Identification of a bioactive 51-membered macrolide complex by activation of a silent polyketide synthase in <i>Streptomyces ambofaciens</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6258-6263.	3.3	275
5	Evolution of the Terminal Regions of the <i>Streptomyces</i> Linear Chromosome. <i>Molecular Biology and Evolution</i> , 2006, 23, 2361-2369.	3.5	96
6	Characterization and Manipulation of the Pathway-Specific Late Regulator AlpW Reveals <i>Streptomyces ambofaciens</i> as a New Producer of Kinamycins. <i>Journal of Bacteriology</i> , 2011, 193, 1142-1153.	1.0	96
7	Genome mining of <i>Streptomyces ambofaciens</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 251-263.	1.4	85
8	Functional Angucycline-Like Antibiotic Gene Cluster in the Terminal Inverted Repeats of the <i>Streptomyces ambofaciens</i> Linear Chromosome. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 575-588.	1.4	65
9	<i>Pseudomonas fluorescens</i> Pirates both Ferrioxamine and Ferricoelichelin Siderophores from <i>Streptomyces ambofaciens</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 3132-3141.	1.4	62
10	Comparative Genomics among Closely Related <i>Streptomyces</i> Strains Revealed Specialized Metabolite Biosynthetic Gene Cluster Diversity. <i>Antibiotics</i> , 2018, 7, 86.	1.5	53
11	Involvement of AlpV, a New Member of the <i>Streptomyces</i> Antibiotic Regulatory Protein Family, in Regulation of the Duplicated Type II Polyketide Synthase alp Gene Cluster in <i>Streptomyces ambofaciens</i> . <i>Journal of Bacteriology</i> , 2005, 187, 2491-2500.	1.0	40
12	Kinamycin biosynthesis employs a conserved pair of oxidases for B-ring contraction. <i>Chemical Communications</i> , 2015, 51, 8845-8848.	2.2	39
13	Role of secondary metabolites in the interaction between <i>Pseudomonas fluorescens</i> and soil microorganisms under iron-limited conditions. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw107.	1.3	39
14	Regulation of the Synthesis of the Angucyclinone Antibiotic Alpomyacin in <i>Streptomyces ambofaciens</i> by the Autoregulator Receptor AlpZ and Its Specific Ligand. <i>Journal of Bacteriology</i> , 2008, 190, 3293-3305.	1.0	38
15	Waking up <i>Streptomyces</i> Secondary Metabolism by Constitutive Expression of Activators or Genetic Disruption of Repressors. <i>Methods in Enzymology</i> , 2012, 517, 343-366.	0.4	33
16	Identification of Alp1U and Lom6 as epoxy hydrolases and implications for kinamycin and lomaiviticin biosynthesis. <i>Nature Communications</i> , 2015, 6, 7674.	5.8	33
17	Intraspecific Variability of the Terminal Inverted Repeats of the Linear Chromosome of <i>Streptomyces ambofaciens</i> . <i>Journal of Bacteriology</i> , 2006, 188, 6599-6610.	1.0	32
18	A Single Sfp-Type Phosphopantetheinyl Transferase Plays a Major Role in the Biosynthesis of PKS and NRPS Derived Metabolites in <i>Streptomyces ambofaciens</i> ATCC23877. <i>PLoS ONE</i> , 2014, 9, e87607.	1.1	32

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19	An Unprecedented 1,2-Shift in the Biosynthesis of the 3-Aminosalicylate Moiety of Antimycins. <i>ChemBioChem</i> , 2012, 13, 769-773.	1.3	31
20	End-to-end fusion of linear deleted chromosomes initiates a cycle of genome instability in <i>Streptomyces ambofaciens</i> . <i>Molecular Microbiology</i> , 2003, 50, 411-425.	1.2	30
21	Dynamics of the compartmentalized <i>Streptomyces</i> chromosome during metabolic differentiation. <i>Nature Communications</i> , 2021, 12, 5221.	5.8	30
22	Volatile Lactones from Streptomyces Arise via the Antimycin Biosynthetic Pathway. <i>ChemBioChem</i> , 2012, 13, 1635-1644.	1.3	29
23	Complete genome sequence of <i>Streptomyces ambofaciens</i> ATCC 23877, the spiramycin producer. <i>Journal of Biotechnology</i> , 2015, 214, 117-118.	1.9	29
24	Cytochrome P450-mediated hydroxylation is required for polyketide macrolactonization in stambomycin biosynthesis. <i>Journal of Antibiotics</i> , 2014, 67, 71-76.	1.0	22
25	N-acylation of L-amino acids in aqueous media: Evaluation of the catalytic performances of <i>Streptomyces ambofaciens</i> aminoacylases. <i>Enzyme and Microbial Technology</i> , 2020, 137, 109536.	1.6	22
26	Differential and Cross-Transcriptional Control of Duplicated Genes Encoding Alternative Sigma Factors in <i>Streptomyces ambofaciens</i> . <i>Journal of Bacteriology</i> , 2004, 186, 5355-5365.	1.0	13
27	An aminoacylase activity from <i>Streptomyces ambofaciens</i> catalyzes the acylation of lysine on the N-terminal position and peptides on the C-terminal position. <i>Engineering in Life Sciences</i> , 2018, 18, 589-599.	2.0	12
28	Characterization of two <i>Streptomyces ambofaciens</i> recA mutants: identification of the RecA protein by immunoblotting. <i>FEMS Microbiology Letters</i> , 2006, 149, 181-187.	0.7	10
29	Gluconic acid-producing <i>Pseudomonas</i> sp. prevent β -actinorhodin biosynthesis by <i>Streptomyces coelicolor</i> A3(2). <i>Archives of Microbiology</i> , 2014, 196, 619-627.	1.0	10
30	Diversity and antimicrobial activities of <i>Streptomyces</i> isolates from Fetzara Lake, north eastern Algeria. <i>Annales De Biologie Clinique</i> , 2018, 76, 81-95.	0.2	9
31	Engineering the stambomycin modular polyketide synthase yields 37-membered mini-stambomycins. <i>Nature Communications</i> , 2022, 13, 515.	5.8	8
32	Isolation and characterization of a mutator strain of <i>Streptomyces ambofaciens</i> ATCC23877 exhibiting an increased level of genetic instability. <i>Canadian Journal of Microbiology</i> , 1996, 42, 562-570.	0.8	5
33	Inhibitions Dominate but Stimulations and Growth Rescues Are Not Rare Among Bacterial Isolates from Grains of Forest Soil. <i>Microbial Ecology</i> , 2020, 80, 872-884.	1.4	2
34	Molecular Dynamics to Elucidate the DNA-Binding Activity of AlpZ, a Member of the Gamma-Butyrolactone Receptor Family in <i>Streptomyces ambofaciens</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 1255.	1.5	2
35	Draft Whole-Genome Shotgun Sequence of <i>Streptomyces</i> sp. Strain ETH9427. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.3	1