Jean-Luc Pernodet

List of Publications by Year
in descending order

69	4,800	126907	98798
papers	citations	33 h-index	67 g-index

73	73	73	4542
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Minimum Information about a Biosynthetic Gene cluster. Nature Chemical Biology, 2015, 11, 625-631.	8.0	715
2	Towards the sustainable discovery and development of new antibiotics. Nature Reviews Chemistry, 2021, 5, 726-749.	30.2	439
3	Recombinant Environmental Libraries Provide Access to Microbial Diversity for Drug Discovery from Natural Products. Applied and Environmental Microbiology, 2003, 69, 49-55.	3.1	305
4	Cyclodipeptide synthases are a family of tRNA-dependent peptide bondâ€“forming enzymes. Nature Chemical Biology, 2009, 5, 414-420.	8.0	215
5	Antibiotic resistance gene cassettes derived from the Ï€ interposon for use in E. coli and Streptomyces. Gene, 1997, 190, 315-317.	2.2	193
6	Identification and structural basis of the reaction catalyzed by CYP121, an essential cytochrome P450 in Mycobacterium tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7426-7431.	7.1	192
7	The nonribosomal synthesis of diketopiperazines in tRNA-dependent cyclodipeptide synthase pathways. Natural Product Reports, 2012, 29, 961.	10.3	140
8	Organization and nucleotide sequence analysis of a ribosomal RNA gene cluster from Streptomyces ambofaciens. Gene, 1989, 79, 33-46.	2.2	137
9	Molecular Basis of Intrinsic Macrolide Resistance in the Mycobacterium tuberculosis Complex. Antimicrobial Agents and Chemotherapy, 2004, 48, 143-150.	3.2	135
10	The Albonoursin Gene Cluster of S. noursei. Chemistry and Biology, 2002, 9, 1355-1364.	6.0	133
11	Multiple biosynthetic and uptake systems mediate siderophore-dependent iron acquisition in Streptomyces coelicolor A3(2) and Streptomyces ambofaciens ATCC 23877. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlock	2.8	112
12	Plasmids in different strains of Streptomyces ambofaciens: free and integrated form of plasmid pSAM2. Molecular Genetics and Genomics, 1984, 198, 35-41.	2.4	108
13	The Genome Sequence of Streptomyces lividans 66 Reveals a Novel tRNA-Dependent Peptide Biosynthetic System within a Metal-Related Genomic Island. Genome Biology and Evolution, 2013, 5, 1165-1175.	2.5	99
14	Evolution of the Terminal Regions of the Streptomyces Linear Chromosome. Molecular Biology and Evolution, 2006, 23, 2361-2369.	8.9	96
15	MbtH-like protein-mediated cross-talk between non-ribosomal peptide antibiotic and siderophore biosynthetic pathways in Streptomyces coelicolor M145. Microbiology (United Kingdom), 2007, 153, 1405-1412.	1.8	93
16	The integrative element pSAM2 from Streptomyces: kinetics and mode of conjugal transfer. Molecular Microbiology, 2008, 42, 159-166.	2.5	86
17	Genome mining of Streptomyces ambofaciens. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 251-263.	3.0	85
18	Cyclodipeptide synthases, a family of class-I aminoacyl-tRNA synthetase-like enzymes involved in non-ribosomal peptide synthesis. Nucleic Acids Research, 2011, 39, 4475-4489.	14.5	83

#	Article	IF	Citations
19	Characterization of Sviceucin from Streptomyces Provides Insight into Enzyme Exchangeability and Disulfide Bond Formation in Lasso Peptides. ACS Chemical Biology, 2015, 10, 2641-2649.	3.4	73
20	Analysis of 51 cyclodipeptide synthases reveals the basis for substrate specificity. Nature Chemical Biology, 2015, 11, 721-727.	8.0	70
21	Functional Angucycline-Like Antibiotic Gene Cluster in the Terminal Inverted Repeats of the Streptomyces ambofaciens Linear Chromosome. Antimicrobial Agents and Chemotherapy, 2004, 48, 575-588.	3.2	65
22	Methyltransferase Erm(37) Slips on rRNA to Confer Atypical Resistance in Mycobacterium tuberculosis. Journal of Biological Chemistry, 2005, 280, 38942-38947.	3.4	65
23	Organization of the biosynthetic gene cluster for the macrolide antibiotic spiramycin in Streptomyces ambofaciens. Microbiology (United Kingdom), 2007, 153, 4111-4122.	1.8	54
24	An Iterative Nonribosomal Peptide Synthetase Assembles the Pyrrole-Amide Antibiotic Congocidine in Streptomyces ambofaciens. Chemistry and Biology, 2009, 16, 421-431.	6.0	54
25	Structural analysis of loci involved in pSAM2 site-specific integration in Streptomyces. Plasmid, 1989, 21, 59-70.	1.4	52
26	Transfer functions of the conjugative integrating element pSAM2 from Streptomyces ambofaciens: characterization of a kil-kor system associated with transfer. Journal of Bacteriology, 1993, 175, 5529-5538.	2.2	52
27	A Comprehensive Overview of the Cyclodipeptide Synthase Family Enriched with the Characterization of 32 New Enzymes. Frontiers in Microbiology, 2018, 9, 46.	3.5	52
28	Nonribosomal Peptide Synthesis in Animals: The Cyclodipeptide Synthase of Nematostella. Chemistry and Biology, 2011, 18, 1362-1368.	6.0	50
29	Complete conversion of antibiotic precursor to pristinamycin IIA by overexpression of Streptomyces pristinaespiralis biosynthetic genes. Nature Biotechnology, 1997, 15, 349-353.	17.5	43
30	Natural and Acquired Macrolide Resistance in Mycobacteria. Current Drug Targets Infectious Disorders, 2002, 2, 355-370.	2.1	38
31	Excisable Cassettes: New Tools for Functional Analysis of Streptomyces Genomes. Applied and Environmental Microbiology, 2006, 72, 4839-4844.	3.1	38
32	Structure of the chromosomal insertion site for pSAM2: functional analysis in Escherichia coli. Molecular Microbiology, 1998, 28, 333-342.	2.5	37
33	Functional analysis of the Streptomyces ambofaciens element pSAM2. Plasmid, 1991, 25, 40-52.	1.4	36
34	Glycosylation Steps during Spiramycin Biosynthesis in Streptomyces ambofaciens : Involvement of Three Glycosyltransferases and Their Interplay with Two Auxiliary Proteins. Antimicrobial Agents and Chemotherapy, 2010, 54, 2830-2839.	3.2	36
35	The Absence of Pupylation (Prokaryotic Ubiquitin-Like Protein Modification) Affects Morphological and Physiological Differentiation in Streptomyces coelicolor. Journal of Bacteriology, 2015, 197, 3388-3399.	2.2	35
36	Mode and origin of replication of pSAM2, a conjugative integrating element of Streptomyces ambofaciens. Molecular Microbiology, 1993, 10, 799-812.	2.5	33

#	Article	IF	Citations
37	KorSA from the Streptomyces Integrative Element pSAM2 Is a Central Transcriptional Repressor: Target Genes and Binding Sites. Journal of Bacteriology, 2000, 182, 1243-1250.	2.2	33
38	The macrolide-lincosamide-streptogramin B resistance phenotypes characterized by using a specifically deleted, antibiotic-sensitive strain of Streptomyces lividans. Antimicrobial Agents and Chemotherapy, 1996, 40, 581-585.	3.2	32
39	Intraspecific Variability of the Terminal Inverted Repeats of the Linear Chromosome of Streptomyces ambofaciens. Journal of Bacteriology, 2006, 188, 6599-6610.	2.2	32
40	Regulation of the Biosynthesis of the Macrolide Antibiotic Spiramycin in Streptomyces ambofaciens. Journal of Bacteriology, 2010, 192, 5813-5821.	2.2	31
41	Natural Combinatorial Biosynthesis Involving Two Clusters for the Synthesis of Three Pyrrolamides in Streptomyces netropsis. ACS Chemical Biology, 2015, 10, 601-610.	3.4	30
42	Dynamics of the compartmentalized Streptomyces chromosome during metabolic differentiation. Nature Communications, 2021, 12, 5221.	12.8	30
43	Characterization of a Glycosyl Transferase Inactivating Macrolides, Encoded by gimA from Streptomyces ambofaciens. Antimicrobial Agents and Chemotherapy, 1998, 42, 2612-2619.	3.2	29
44	Complete genome sequence of Streptomyces ambofaciens ATCC 23877, the spiramycin producer. Journal of Biotechnology, 2015, 214, 117-118.	3.8	29
45	Excision and integration of a self-transmissible replicon of Streptomyces ambofaciens. Gene, 1987, 59, 137-144.	2.2	27
46	Site-specific integration of plasmid pSAM2 in Streptomyces lividans and S. ambofaciens. Molecular Genetics and Genomics, 1988, 212, 432-439.	2.4	26
47	Replicase, Excisionase, and Integrase Genes of the Streptomyces Element pSAM2 Constitute an Operon Positively Regulated by the pra Gene. Journal of Bacteriology, 1998, 180, 3056-3061.	2.2	25
48	Identification of a Gene Encoding the Replication Initiator Protein of the Streptomyces Integrating Element, pSAM2. Plasmid, 1994, 31, 166-183.	1.4	23
49	Characterization of pra, a gene for replication control in pSAM2, the integrating element of Streptomyces ambofaciens. Molecular Microbiology, 1995, 17, 533-544.	2.5	20
50	Isolation and physical characterization of streptomycete plasmids. Molecular Genetics and Genomics, 1981, 182, 53-59.	2.4	18
51	Conjugal immunity of Streptomyces strains carrying the integrative element pSAM2 is due to the pif gene (pSAM2 immunity factor). Molecular Microbiology, 2003, 47, 1385-1393.	2.5	17
52	A Sweet Origin for the Key Congocidine Precursor 4â€Acetamidopyrroleâ€2â€carboxylate. Angewandte Chemie - International Edition, 2012, 51, 7454-7458.	13.8	17
53	Transcriptional regulation of the novobiocin biosynthetic gene cluster. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	15
54	Modular and Integrative Vectors for Synthetic Biology Applications in Streptomyces spp. Applied and Environmental Microbiology, 2019, 85, .	3.1	14

#	Article	IF	Citations
55	Post-PKS Tailoring Steps of the Spiramycin Macrolactone Ring in Streptomyces ambofaciens. Antimicrobial Agents and Chemotherapy, 2013, 57, 3836-3842.	3.2	13
56	Characterization of the attP site of the integrative element pSAM2 from Streptomyces ambofaciens. Microbiology (United Kingdom), 2002, 148, 61-67.	1.8	13
57	Study of bicyclomycin biosynthesis in Streptomyces cinnamoneus by genetic and biochemical approaches. Scientific Reports, 2019, 9, 20226.	3.3	12
58	Design of a generic CRISPR-Cas9 approach using the same sgRNA to perform gene editing at distinct loci. BMC Biotechnology, 2019, 19, 18.	3.3	11
59	Cloning of Frankia species putative tRNA(Pro) genes and their efficacy for pSAM2 site-specific integration in Streptomyces lividans. Applied and Environmental Microbiology, 1994, 60, 4279-4283.	3.1	11
60	Dispensable ribosomal resistance to spiramycin conferred by srmA in the spiramycin producer Streptomyces ambofaciens The EMBL/GenBank accession number for the nucleotide sequence described in this paper is AJ223970.. Microbiology (United Kingdom), 1999, 145, 2355-2364.	1.8	10
61	Revised Structure of Anthelvencin A and Characterization of the Anthelvencin Biosynthetic Gene Cluster. ACS Chemical Biology, 2020, 15, 945-951.	3.4	9
62	Draft Genome Sequence of Streptomyces sp. M1013, a Close Relative of Streptomyces ambofaciens and Streptomyces coelicolor. Genome Announcements, 2017, 5, .	0.8	3
63	Marker-Free Genome Engineering in Amycolatopsis Using the pSAM2 Site-Specific Recombination System. Microorganisms, 2022, 10, 828.	3.6	3
64	Construction and testing of a bacterial luciferase reporter gene system forin Vivo measurement of nonsense suppression inStreptomyces. Folia Microbiologica, 2006, 51, 62-4.	2.3	2
65	Development of a conditional lethal system for a Streptomyces lividans strain and its use to investigate conjugative transfer in soil. FEMS Microbiology Ecology, 2001, 38, 115-121.	2.7	1
66	Complete Genome Sequence of Streptomyces sp. TN58, a Producer of Acyl Alpha- l -Rhamnopyranosides. Genome Announcements, 2017, 5, .	0.8	1
67	Erratum to â€œDevelopment of a conditional lethal system for a Streptomyces lividans strain and its use to investigate conjugative transfer in soilâ€•[FEMS Microbiology Ecology 38 (2001) 115â€“121]1. FEMS Microbiology Ecology, 2002, 40, 83-84.	2.7	0
68	Erratum to Ã¢Â€ÂœDevelopment of a conditional lethal system for a Streptomyces lividans strain and its use to investigate conjugative transfer in soilÃ¢Â€Â• FEMS Microbiology Ecology, 2002, 40, 83-84.	2.7	0
69	Transcriptional regulation of congocidine (netropsin) biosynthesis and resistance.. Applied and Environmental Microbiology, 2021, 87, e0138021.	3.1	0