Koji Ichinose

List of Publications by Year
in descending order

27 papers	985 citations	471061 17 h-index	525886 27 g-index
29 all docs	29 docs citations	29 times ranked	977 citing authors

#	Article	IF	Citations
1	Characterization of stereospecific enoyl reductase ActVI-ORF2 for pyran ring formation in the actinorhodin biosynthesis of Streptomyces coelicolor A3(2). Bioorganic and Medicinal Chemistry Letters, 2022, 66, 128727.	1.0	3
2	Identification of a C-Glycosyltransferase Involved in Medermycin Biosynthesis. ACS Chemical Biology, 2021, 16, 1059-1069.	1.6	7
3	Total Synthesis of 6-Deoxydihydrokalafungin, a Key Biosynthetic Precursor of Actinorhodin, and Its Epimer. Molecules, 2021, 26, 6397.	1.7	3
4	Unveiling Two Consecutive Hydroxylations: Mechanisms of Aromatic Hydroxylations Catalyzed by Flavinâ€Dependent Monooxygenases for the Biosynthesis of Actinorhodin and Related Antibiotics. ChemBioChem, 2020, 21, 623-627.	1.3	12
5	Discovery of C-Glycosylpyranonaphthoquinones in Streptomyces sp. MBT76 by a Combined NMR-Based Metabolomics and Bioinformatics Workflow. Journal of Natural Products, 2017, 80, 269-277.	1.5	36
6	Bifunctionality of ActIV as a Cyclaseâ€Thioesterase Revealed by in Vitro Reconstitution of Actinorhodin Biosynthesis in <i>Streptomyces coelicolor</i> A3(2). ChemBioChem, 2017, 18, 316-323.	1.3	30
7	Structure and biosynthetic implication of 5R-(N-acetyl-L-cysteinyl)-14S-hydroxy-dihydrokalafungin from a mutant of the actVA-ORF4 gene for actinorhodin biosynthesis in Streptomyces coelicolor A3(2). Journal of Antibiotics, 2015, 68, 481-483.	1.0	6
8	Distinct intraspecific variations of garlic (Allium sativum L.) revealed by the exonâ€“intron sequences of the alliinase gene. Journal of Natural Medicines, 2014, 68, 442-447.	1.1	5
9	Natural Product Proteomining, a Quantitative Proteomics Platform, Allows Rapid Discovery of Biosynthetic Gene Clusters for Different Classes of Natural Products. Chemistry and Biology, 2014, 21, 707-718.	6.2	51
10	Biosynthesis of pyranonaphthoquinone polyketides reveals diverse strategies for enzymatic carbonâ€“carbon bond formation. Current Opinion in Chemical Biology, 2013, 17, 562-570.	2.8	29
11	Biosynthetic Conclusions from the Functional Dissection of Oxygenases for Biosynthesis of Actinorhodin and Related Streptomyces Antibiotics. Chemistry and Biology, 2013, 20, 510-520.	6.2	45
12	Identification of the actinorhodin monomer and its related compound from a deletion mutant of the actVA-ORF4 gene of Streptomyces coelicolor A3(2). Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5041-5045.	1.0	39
13	Epoxyquinone Formation Catalyzed by a Twoâ€Component Flavinâ€Dependent Monooxygenase Involved in Biosynthesis of the Antibiotic Actinorhodin. ChemBioChem, 2011, 12, 2767-2773.	1.3	17
14	Practical procedures for genetic manipulation systems for medermycinâ€producing <i>Streptomyces</i> sp. AMâ€7161. Journal of Basic Microbiology, 2010, 50, 299-301.	1.8	3
15	Biosynthesis of Actinorhodin and Related Antibiotics: Discovery of Alternative Routes for Quinone Formation Encoded in the act Gene Cluster. Chemistry and Biology, 2009, 16, 226-236.	6.2	88
16	Actinoperylone, a novel perylenequinone-type shunt product, from a deletion mutant of the actVA-ORF5 and ORF6 genes for actinorhodin biosynthesis in Streptomyces coelicolor A3(2). Tetrahedron Letters, 2008, 49, 1208-1211.	0.7	11
17	Actinorhodin Biosynthesis:â€‰ Structural Requirements for Post-PKS Tailoring Intermediates Revealed by Functional Analysis of ActVI-ORF1 Reductase. Biochemistry, 2007, 46, 8181-8188.	1.2	28
18	Possible involvement of ActVI-ORFA in transcriptional regulation of actVI tailoring-step genes for actinorhodin biosynthesis. FEMS Microbiology Letters, 2007, 269, 234-239.	0.7	12

#	Article	IF	Citations
19	Functional studies on a ketoreductase gene from Streptomyces sp. AM-7161 to control the stereochemistry in medermycin biosynthesis. Bioorganic and Medicinal Chemistry, 2005, 13, 6856-6863.	1.4	15
20	The Glycosyltransferase UrdGT2 Catalyzes Both C- and O-Glycosidic Sugar Transfers. Angewandte Chemie - International Edition, 2004, 43, 2962-2965.	7.2	109
21	Remarkably different structures and reaction mechanisms of ketoreductases for the opposite stereochemical control in the biosynthesis of BIQ antibiotics. Bioorganic and Medicinal Chemistry, 2004, 12, 5917-5927.	1.4	18
22	Cloning, sequencing and heterologous expression of the medermycin biosynthetic gene cluster of Streptomyces sp. AM-7161: towards comparative analysis of the benzoisochromanequinone gene clusters. Microbiology (United Kingdom), 2003, 149, 1633-1645.	0.7	112
23	A New Mode of Stereochemical Control Revealed by Analysis of the Biosynthesis of Dihydrogranaticin inStreptomycesviolaceoruberTÃ¼22. Journal of the American Chemical Society, 2001, 123, 11376-11380.	6.6	31
24	Functional Complementation of Pyran Ring Formation in Actinorhodin Biosynthesis in Streptomyces coelicolor A3(2) by Ketoreductase Genes for Granaticin Biosynthesis. Journal of Bacteriology, 2001, 183, 3247-3250.	1.0	26
25	Chemical Characterisation of Disruptants of the Streptomyces coelicolor A3(2). ActVI Genes Involved in Actinorhodin Biosynthesis.. Journal of Antibiotics, 2000, 53, 144-152.	1.0	61
26	Proof that the actVI genetic region of Streptomyces coelicolor A3(2) is involved in stereospecific pyran ring formation in the biosynthesis of actinorhodin. Bioorganic and Medicinal Chemistry Letters, 1999, 9, 395-400.	1.0	47
27	The granaticin biosynthetic gene cluster of Streptomyces violaceoruber TÃ¼22: sequence analysis and expression in a heterologous host. Chemistry and Biology, 1998, 5, 647-659.	6.2	141