

7. lomaiviticin TDP-pyrrolosamine
,2014-2016
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1. Importance of aspartic acid side chain carboxylate-arginine interaction in substrate selection of arginine 2,3-aminomutase BlsG. Luo X, Wang X, Zhang L, Du A, Deng Z, **Jiang M***, He X*, *Protein Sci.* 2023, 32(3):e4584.
 2. Unexpected Role of a short-chain dehydrogenase/reductase family protein in type II polyketide biosynthesis. Gao Y, Zhao Y, Zhou J, Yang M, Lin L, Wang W, Tao M, Deng Z, **Jiang M**, *Angew Chem Int Ed Engl.* 2022, 61(7): e202110445.
 3. Efficient biosynthesis of nucleoside cytokinin angustmycin A containing an unusual sugar system. Yu L, Zhou W, She Y, Ma H, Cai YS, **Jiang M**, Deng Z, Price NPJ, Chen W. *Nat Commun.* 2021, 12(1):6633. doi: 10.1038/s41467-021-26928-y.
 4. A [3Fe-4S] cluster and tRNA-dependent aminoacyltransferase BlsK in the biosynthesis of Blasticidin S. Wang X, Zhao Y, Gao Y, Luo X, Du A, Deng Z, Zabriskie TM, He X, **Jiang M**, *Proc Natl Acad Sci U S A.* 2021, 118(30): e2102318118.
 5. Challenges of functional expression of complex polyketide biosynthetic gene clusters. Gao Y, Zhao Y, He X, Deng Z, **Jiang M**, *Curr Opin Biotechnol.* 2021, 69:103-111.
 6. Offloading role of a discrete thioesterase in type II polyketide biosynthesis. Hua K, Liu X, Zhao Y, Gao Y, Pan L, Zhang H, Deng Z, **Jiang M**, *mBio.* 2020, 11(5):e01334-20.
 7. Heterologous Biosynthesis of Type II Polyketide Products Using *E. coli*. Liu X, Hua K, Liu D, Wu ZL, Wang Y, Zhang H, Deng Z, Pfeifer BA, **Jiang M**, *ACS Chem Biol.* 2020 May 15;15(5):1177-1183.
 8. Enhancing anthranilic acid biosynthesis using biosensor-assisted cell selection and in situ product removal. Li Z, Lu Y, Wang X, Vekaria A, **Jiang M**, Zhang H*. *Biochemical Engineering Journal.* 2020. 162: 107722.
 9. Liu X, Liu D, Xu M, Tao M, Bai L, Deng Z, Pfeifer BA, **Jiang M***. Reconstitution of kinamycin biosynthesis within the heterologous host *streptomyces albus* J1074, *J Nat Prod.*, 2018, 81(1): 72~77.
 10. Engineering the shikimate pathway for biosynthesis of molecules with pharmaceutical activities in *E. coli*. **Jiang M***, Zhang H, *Curr Opin Biotechnol.* 2016, 42:1-6.
 11. Gao G, Liu X, Xu M, Wang Y, Zhang F, Xu L, Lv J, Long Q, Kang Q, Ou HY, Wang Y, Rohr J, Deng Z, **Jiang M***, Lin S*, Tao M*. Formation of an angular aromatic polyketide from a linear anthrene precursor via oxidative rearrangement. *Cell Chem Biol.* 2017, 24(7):881-891.
 12. Lu C, Zhang X, **Jiang M**, Bai L. Enhanced salinomycin production by adjusting the supply of polyketide extender units in *Streptomyces albus*. *Metab Eng.* 2016, 35:129-137.
 13. Liao L., Chen R., **Jiang M**, Tian X, Liu H., Yu Y., Fan C., Chen B., Bioprospecting potential of halogenases from Arctic marine actinomycetes. *BMC Microbiol.* 2016, 16:34. doi: 10.
 14. Yu G, Li L., Liu X., Liu G., Deng Z., Zabriskie M.T., **Jiang M***, He X.*. The standalone aminopeptidase PepN catalyzes the maturation of blasticidin S from leucylblasticidin in *S.* *Sci Rep.* 2015, 5:17641.
 15. Jiang C, Qi Z, Kang Q, Liu J, **Jiang M** bis(spiroacetal) in salinomycin is atypically catalyzed by SlnM, a methyltransferase-like enzyme. *Angew Chem Int Ed Engl.* 2015, 54(31):9097-100.
 16. **Jiang M**; Zhang H.; Park SH.; Li Y; Pfeifer BA. Deoxysugar pathway interchange for erythromycin analogues heterologously produced through *Escherichia coli*. *Metab Eng.* 2013, 20:92-100.
 17. **Jiang M**; Pfeifer BA. Metabolic and pathway engineering to influence native and altered erythromycin production through *E. coli*. *Metab Eng.* 2013, 19:42-49.
 18. **Jiang M**, Fang L, Pfeifer BA. Improved heterologous erythromycin A production through expression

plasmid re-design.

36. Guo, Z. F.; **Jiang, M.**; Zheng, S.; Guo Z.; Structural change of the enterobactin synthetase in crowded solution and its relation to crowding-enhanced product specificity in nonribosomal enterobactin biosynthesis. *Bioorg Med Chem Lett.* 2010, 20(13), 3855-3858.
37. Guo, Z. F.; **Jiang, M.**; Zheng, S.; Guo, Z., Suppression of linear side products by macromolecular crowding in nonribosomal enterobactin biosynthesis. *Org. Lett.* **2008**, 10, (4), 649-652.
38. Aouacheria, A.; Navratil, V.; Wen, W.; **Jiang, M.**; Mouchiroud, D.; Gautier, C.; Gouy, M.; Zhang, M., In silico whole-genome scanning of cancer-associated nonsynonymous SNPs and molecular characterization of a dynein light chain tumour variant. *Oncogene* **2005**, 24, (40), 6133-6142.
39. Romorini, S.; Piccoli, G.; **Jiang, M.**; Grossano, P.; Tonna, N.; Passafaro, M.; Zhang, M. J.; Sala, C., A functional role of postsynaptic density-95-guanylate kinase-associated protein complex in regulating shank assembly and stability to Synapses. *J. Neurosci.* **2004**, 24, (42), 9391-9404.
40. Feng, W.; Fan, J. S.; **Jiang, M.**; Shi, Y. W.; Zhang, M., PDZ7 of glutamate receptor interacting protein binds to its target via a novel hydrophobic surface area. *J. Biol. Chem.* **2002**, 277, (43), 41140-41146.