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学術論文リスト

1. Nakashima, Y., **Mori, T.**, Nakamura, H., Awakawa, T., Hoshino, S., Senda, M., Senda, T., Abe, I. "Structure function and engineering of multifunctional non-heme iron dependent oxygenases in fungal meroterpenoid biosynthesis." *Nat. Commun.* 9, 104 (2018)
2. Wong, C. P., Awakawa, T., Nakashima, Y., **Mori, T.**, Zhu, Q., Liu, X., Abe, I. "Two distinct substrate binding modes for the normal and reverse prenylations of hapalindoles by the prenyltransferase AmbP3." *Angew. Chem. Int. Ed.* 57, 560-563 (2018)
3. Pott, M., Hayashi, T., **Mori, T.**, Mittl, P. R. E., Green, A. P., Hilvert, D. "A non-canonical proximal heme ligand affords an efficient peroxidase in a globin fold." *J. Am. Chem. Soc.* 140, in press (2018)
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5. **Mori, T.**, Iwabuchi, T., Hoshino, S., Wang, H., Matsuda, Y., Abe, I. "Molecular basis for the unusual ring reconstruction in fungal meroterpenoid biogenesis." *Nat. Chem. Biol.* 13, 1066-1073 (2017)
6. Matsui, T., Kodama, T., **Mori, T.**, Tadakoshi, T., Noguchi, H., Abe, I., Morita, H. "2-Alkylquinolone alkaloid biosynthesis by collaboration of two novel type III polyketide synthases in *Evodia rutaecarpa*." *J. Biol. Chem.* 292, 9117-9135 (2017)

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8. **Mori, T.**, Awakawa, T., Shimomura, K., Saito, Y., Yang, D., Morita, H., Abe, I. "Structural insight into the enzymatic formation of bacterial stilbene." *Cell Chem. Biol.* 23, 1468-1479 (2016)
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10. Matsuda, Y., Iwabuchi, T., Fujimoto, T., Awakawa, T., Nakashima, Y., **Mori, T.**, Zhang, H., Hayashi, F., Abe, I. "Discovery of key dioxygenases that diverged the paraherquonin and acetoxhydroaustin pathways in *Penicillium brasilianum*" *J. Am. Chem. Soc.* 138, 12671-12677 (2016)
11. Okada, M., Matsuda, Y., Mitsunashi, T., Hoshino, S., **Mori, T.**, Nakagawa, K., Quan, Z., Qin, B., Zhang, H., Hayashi, F., Kawaide, H., Abe, I. "Genome-based discovery of an unprecedented cyclization mode in fungal sesterterpenoid biosynthesis." *J. Am. Chem. Soc.* 138, 10011-10018 (2016)
12. Qin, B., Matsuda, Y., **Mori, T.**, Okada, M., Quan, Z., Mitsunashi, T., Wakimoto, T., Abe, I. "An unusual chimeric diterpene synthase from *Emericella varicolor* and its functional conversion to a sesterterpene synthase by domain swapping." *Angew. Chem. Int. Ed.* 55, 1658-1661 (2016)
13. Matsuda, Y., Mitsunashi, T., Lee, S., Hoshino, S., **Mori, T.**, Okada, M., Zhang, H., Hayashi, F., Fujita, M., Abe, I. "Astellifadiene, a unique tetracyclic fungal sesterterpene: structure determination by an NMR-coupled crystalline sponge method and elucidation of its biosynthesis." *Angew. Chem. Int. Ed.* 55, 5785-5788 (2016)
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20. Yang, X., Matsui, T., **Mori, T.**, Taura, F., Noguchi, H., Abe, I., Morita, H. “Crystallization and preliminary X-ray diffraction analysis of a plant polyketide cyclase.” **Acta Cryst.** 71(Pt 12):1470-1474 (2015)
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著書・総説

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2. 淡川孝義, 森貴裕, 阿部郁朗, 「植物ポリケタイド合成酵素の機能制御による非天然型化合物生産」生物工学会誌, 92, 420-423 (2014)
3. 森貴裕, 脇本敏幸, 森田洋行, 阿部郁朗, 「植物ポリケタイド合成酵素による生物活性テトラミン酸誘導体の合成」, バイオサイエンスとインダストリー, 69, 308-310 (2011)