

## 森 貴裕 Takahiro Mori, Ph.D.

1988年2月18日生



### 学歴・職歴

2010年3月	静岡県立大学薬学部卒業
2012年3月	東京大学大学院薬学系研究科修士課程修了
2014年3月	東京大学大学院薬学系研究科博士課程中退
2014年4月	東京大学大学院薬学系研究科・助教
2016年1月	博士（薬科学）・東京大学
2016年4月	ETH Zürich, Department of Chemistry and Applied Biosciences Prof. Donald Hilvert・博士研究員
2018年1月	東京大学大学院薬学系研究科・助教（復職）
2020年11月	JST 戦略的創造研究推進事業さきがけ「革新的植物分子デザイン」研究者（兼任）
2023年4月	JST 創発的研究支援事業（水島パネル）研究者（兼任）
2023年4月	東京大学大学院薬学系研究科・准教授、現在に至る
2025年4月	学術変革領域研究(B)「特化メタボロン」領域代表（兼任）

### 受賞歴

2015年6月	日本薬学会 生薬天然物部会奨励賞
2018年5月	酵素工学会 酵素工学奨励賞
2018年6月	日本生薬学会 学術奨励賞
2019年2月	第35回 井上研究奨励賞
2021年6月	第22回 酵素応用シンポジウム 研究奨励賞
2022年3月	日本薬学会 奨励賞
2022年7月	第21回 天然物化学談話会 奨励賞
2023年4月	科学技術分野の文部科学大臣表彰 若手科学者賞
2023年10月	第65回 天然有機化合物討論会 奨励賞
2024年2月	第16回 井上リサーチアワード
2024年12月	Asian Core Lectureship Award (Taiwan)
2025年4月	長瀬研究振興賞

### 学術論文リスト

1. **Mori, T.**,\* Moriwaki, Y., Sakurada, K., Lyu, S., Kadlcik, S., Janata, J., Mazumdar, A., Koberaska, M., Terada, T.,\* Kamenik, Z.,\* Abe, I.\* “Molecular basis for the diversification of lincosamide biosynthesis by pyridoxal phosphate-dependent enzymes.”

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**\*co-corresponding author**

2. Zhu, Y., **Mori, T.**,\* Karasawa, M., Shirai, K., Chen, W., Terada, T., Awakawa, T.,\* Abe, I.\* “Structure-function analysis of carrier protein-dependent 2-sulfamoyl acetyl transferase in the biosynthesis of altemicidin.” **Nature Commun.** 15, Article number: 10896 (2024)  
**\*co-corresponding author**
3. Ushimaru, R., **Mori, T.**, *et al.*, “TBA.” **Nature Catalysis**, in revision (2024)
4. Awakawa, T.,<sup>†</sup> **Mori, T.**,<sup>†</sup> Barra, L., Ahmed, Y., Ushimaru, R., Gao, Y., Adachi, N., Senda, T., Terada, T., Tantillo, D. J., Abe, I. “The structural basis of pyridoxal 5'-phosphate dependent  $\beta$ -NAD alkylating enzyme.” **Nature Catalysis** 7, 1099-1108 (2024)  
**†co-first author**
5. **Mori, T.**,\* Kadlcik, S., Lyu, S., Kamenik, Z., Sakurada, K., Mazumdar, A., Wang, H., Janata, J., Abe, I.\* “Molecular basis for carrier protein-dependent amide bond formation in the biosynthesis of lincosamide antibiotics.” **Nature Catalysis** 6, 531-542 (2023)  
**\*co-corresponding author**
6. **Mori, T.**,\* Sun, X., Kadlcik, S., Janata, J., Abe, I.\* “Structure-function analysis of the S-glycosylation reaction in lincosamide antibiotics biosynthesis.” **Angew. Chem. Int. Ed.** 62, e202304989 (2023)  
**\*co-corresponding author**
7. Ushimaru, R., Cha, L., Shimo, S., Li, X., Paris, J., **Mori, T.**, Miyamoto, K., Coffey, L., Uchiyama, M., Guo, Y., Chang, W.-c., Abe, I. “Mechanistic analysis of the stereodivergent nitroalkane cyclopropanation catalyzed by nonheme iron enzymes.” **J. Am. Chem. Soc.** 145, 24210-24217 (2023)
8. Ushimaru, R., Ding, Y., **Mori, T.**, Miyamoto, K., Uchiyama, M., Abe, I. “Structural and mechanistic insights into the C–C bond forming rearrangement reaction catalyzed by heterodimeric hinokiresinol synthase.” **J. Am. Chem. Soc.** 145, 21966-21973 (2023)
9. Tao, H.,<sup>†</sup> Lauterbach, L.,<sup>†</sup> Bian, G.,<sup>†</sup> Chen, R.,<sup>†</sup> Hou, A.,<sup>†</sup> **Mori, T.**,<sup>†</sup> Cheng, S., Hu, B., Lu, L., Mu, X., Li, M., Adachi, N., Kawasaki, M., Moriya, T., Senda, T., Wang, X., Deng, Z., Abe, I.,\* Dickschat, J. S.,\* Liu, T.\* “Discovery of non-squalene triterpenes.” **Nature** 606, 414-419 (2022)  
**†co-first author**
10. Tao, H.,<sup>†</sup> **Mori, T.**,<sup>†,\*</sup> Chen, H., Lyu, S., Nonoyama, A., Lee, S., Abe, I.\* “Molecular insights into the unusually promiscuous and catalytically versatile Fe(II)/ $\alpha$ -ketoglutarate-dependent oxygenase SptF.” **Nature Commun.** 13, Article number: 95 (2022)  
**†co-first author, \*co-corresponding author**
11. Tao, H., Ushimaru, R., Awakawa, T., **Mori, T.**, Uchiyama, M., Abe, I. “Stereoselectivity and substrate specificity of the Fe(II)/ $\alpha$ -ketoglutarate-dependent oxygenase TqaL.”

**J. Am. Chem. Soc.** 144, 21512-21520 (2022)

12. Li, X., Chen, H.-P., Zhou, L., Fan, J., Awakawa, T., **Mori, T.**, Ushimaru, R., Abe, I., Liu, J.-K., “Cordycicadins A–D, antifeedant polyketides from the entomopathogenic fungus *Cordyceps cicadae* JXCH1.” **Org. Lett.** 24, 8627-8632 (2022)
13. **Mori, T.**,\* Nakashima, Y., Chen, H., Hoshino, S., Mitsuhashi, T., Abe, I.\* “Structure-based redesign of Fe(II)/2-oxoglutarate-dependent oxygenase AndA to catalyze spiro-ring formation.” **Chem. Commun.** 58, 5510-5513 (2022)  
**\*co-corresponding author**
14. **Mori, T.**,\* Yu, Z., Tao, H., Abe, I.\* “Rational engineering of the non-heme iron- and 2-oxoglutarate-dependent oxygenase SptF.” **Org. Lett.** 24, 1737-1741 (2022)  
**\*co-corresponding author**
15. Wang, X.-H., Gao, B.-W., Nakashima, Y., **Mori, T.**, Zhang, Z.-X., Kodama, T., Lee, Y.-E., Zhang, Z.-K., Wong, C.-P., Liu, Q.-Q., Qi, B.-W., Wang, J., Li, J., Liu, X., Abe, I., Morita, H., Tu, P.-F., Shi, S.-P. “Identification of a diarylpentanoid-producing polyketide synthase revealing an unusual biosynthetic pathway of 2-(2-phenylethyl)chromones in agarwood.” **Nature Commun.** 13, Article number: 348 (2022)
16. **Mori, T.**, Kumano, T., He, H., Watanabe, S., Senda, M., Moriya, T., Adachi, N., Hori, S., Terashita, Y., Kawasaki, M., Hashimoto, Y., Awakawa, T., Senda, T., Abe, I., Kobayashi, M. “C-Glycoside metabolism in the gut and in nature: identification, characterization, structural analyses and distribution of C-C bond-cleaving enzymes.” **Nature Commun.** 12, Article number: 6294 (2021)
17. **Mori, T.**,\* Zhai, R., Ushimaru, R., Matsuda, Y., Abe, I.\* “Molecular insights into the endoperoxide formation by Fe(II)/ $\alpha$ -KG-dependent oxygenase Nvfl.” **Nature Commun.** 12, Article number: 4417 (2021)  
**\*co-corresponding author**
18. Li, X., Awakawa, T., **Mori, T.**, Ling, M., Hu, D., Wu, B., Abe, I. “Heterodimeric non-heme iron enzymes in fungal meroterpenoid biosynthesis.” **J. Am. Chem. Soc.** 143, 21425-21432 (2021)
19. Yang, J.,<sup>†</sup> **Mori, T.**,<sup>†,\*</sup> Wei, X., Matsuda, Y.,\* Abe, I.\* “Structural basis for isomerization reactions in fungal tetrahydroxanthone biosynthesis and diversification.” **Angew. Chem. Int. Ed.** 60, 19458-19465 (2021)  
**†co-first author, \*co-corresponding author**
20. Bunno, T., Awakawa, T., **Mori, T.**, Abe, I. “Aziridine formation by a Fe(II)/ $\alpha$ -ketoglutarate dependent oxygenase and 2-aminoisobutyrate biosynthesis in fungi.” **Angew. Chem. Int. Ed.** 60, 15827-15831 (2021)
21. Tao, H., **Mori, T.**, Wei, X., Matsuda, Y., Abe, I. “One polyketide synthase, two distinct products: trans-acting enzyme-controlled product divergence in calbistrin biosynthesis.” **Angew. Chem. Int. Ed.** 60, 8551-8858 (2021)

22. Basler, S., Studer, S., Zou, Y., **Mori, T.**, Ota, Y., Camus, A., Bunzel, H. A., Helgeson, R. C., Houk, K. N., Jiménez-Osés, G., Hilvert, D. "Efficient Lewis acid catalysis of an abiological reaction in a de novo protein scaffold." *Nature Chemistry*, 11, 231-235 (2021)
23. Morita, I.,<sup>†</sup> **Mori, T.**,<sup>†</sup> Abe, I. "Molecular basis for the P450-catalyzed C–N bond formation in indolactam biosynthesis." *Chem. Eur. J.* 27, 2963-2972 (2021)  
**†co-first author**
24. **Mori, T.**,\* Wanibuchi, K., Morita, H., Abe, I.\* "Amide bond formation using 4-coumarate:CoA ligase from *Arabidopsis thaliana*." *Chem. Pharm. Bull.* 69, 717-720 (2021)  
**\*co-corresponding author**
25. Jiang, J., Li, X., **Mori, T.**, Awakawa, T., Abe, I. "Novel cyclohexyl meroterpenes produced by combinatorial biosynthesis." *Chem. Pharm. Bull.* 69, 444-446 (2021)
26. Matsuda, K., Zhai, R., **Mori, T.**, Kobayashi, M., Sano, A., Abe, I., Wakimoto, T. "Heterochiral coupling in non-ribosomal peptide macrolactamization." *Nature Catalysis* 3, 507-515 (2020)
27. Morita, I.,<sup>†</sup> **Mori, T.**,<sup>†</sup> Mitsuhashi, T.,<sup>†</sup> Hoshino, S.,<sup>†</sup> Taniguchi, Y., Kikuchi, T., Nagae, K., Nasu, N., Fujita, M., Ohwada, T., Abe, I. "Exploiting a C-N bond forming cytochrome P450 monooxygenase for C-S bond." *Angew. Chem. Int. Ed.* 59, 3988-3993 (2020)  
**†co-first author**
28. He, H., Bian, G., Herbst-Gervason, C. J., **Mori, T.**, Shinsky, S. A., Hou, A., Mu, X., Huang, M., Cheng, S., Deng, Z., Christianson, D. W., Abe, I., Liu, T. "Discovery of the cryptic function of terpene cyclases as aromatic prenyltransferases." *Nature Commun.* 11, Article number: 3958 (2020)
29. Bai, T., Matsuda, Y., Tao, H., **Mori, T.**, Zhang, Y., Abe, I. "Structural diversification of andiconin-derived natural products by  $\alpha$ -ketoglutarate-dependent dioxygenases." *Org. Lett.* 22, 4311-4315 (2020)
30. Macdonald, D. S., Garrabou, X., Klaus, C., Verez, R., **Mori, T.**, Hilvert, D. "Engineered artificial carbonylases facilitate regioselective preparation of enantioenriched aldol adducts." *J. Am. Chem. Soc.* 142, 10250-10254 (2020)
31. He, F.,<sup>†</sup> **Mori, T.**,<sup>†</sup> Morita, I.,<sup>†</sup> Nakamura, H., Alblova, M., Hoshino, S., Awakawa, T., Abe, I. "Molecular basis for the P450-catalyzed C–N bond formation in indolactam biosynthesis." *Nature Chem. Biol.* 15, 1206-1213 (2019)  
**†co-first author**
32. Edwardson, T. G. W., **Mori, T.**, Hilvert, D. "Rational engineering of a designed protein cage for a siRNA delivery." *J. Am. Chem. Soc.* 140, 10439-10442 (2018)

33. Hayashi, T., Tinzl, M., **Mori, T.**, Krengel, U., Proppe, J., Soetbeer, J., Klose, D., Jeschke, G., Reiher, M., Hilvert D. "Capture and characterisation of a reactive haem-carbenoid complex in an artificial metalloenzyme." *Nature Catalysis* 1, 578-584 (2018)
34. Awakawa, T., **Mori, T.**, Nakashima, Y., Zhai, R., Wong, C. P., Hillwig, M. L., Liu, X., Abe, I. "Molecular basis for Mg<sup>2+</sup>-dependent allosteric control of indole prenylation by aromatic prenyltransferase AmbP1." *Angew. Chem. Int. Ed.* 57, 6810-6813 (2018)
35. 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." *Nature Commun.* 9, Article number: 104 (2018)
36. 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)
37. 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, 1535-1543 (2018)
38. Niquille, D. L., Hansen, D. A., **Mori, T.**, Fercher, D., Kries, H., Hilvert, D. "Nonribosomal biosynthesis of backbone-modified peptides." *Nature Chemistry* 9, 282-287 (2018)
39. **Mori, T.**, Iwabuchi, T., Hoshino, S., Wang, H., Matsuda, Y., Abe, I. "Molecular basis for the unusual ring reconstruction in fungal meroterpenoid biogenesis." *Nature Chem. Biol.* 13, 1066-1073 (2017)
40. 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)
41. **Mori, T.**, Zhang, L., Awakawa, T., Hoshino, S., Okada, M., Morita, H., Abe, I. "Manipulation of prenylation reactions by structure-based engineering of bacterial indolactam prenyltransferases." *Nature Commun.* 7, Article number: 10849 (2016)
42. **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)
43. Qin, F., Qin, B., **Mori, T.**, Wang, Y., Meng, L., Zhang, X., Jia, X., Abe, I., You, S. "Engineering of *Candida glabrata* Ketoreductase 1 for asymmetric reduction of  $\alpha$ -halo ketones" *ACS Catalysis* 6, 6135-6140 (2016)
44. 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 acetoxydehydroaustin pathways in *Penicillium brasilianum*" *J. Am. Chem. Soc.* 138, 12671-12677 (2016)

45. Okada, M., Matsuda, Y., Mitsuhashi, 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)
46. Qin, B., Matsuda, Y., **Mori, T.**, Okada, M., Quan, Z., Mitsuhashi, 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)
47. Matsuda, Y., Mitsuhashi, 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)
48. Yang, X., Matsui, T., Kodama, T., **Mori, T.**, Zhou, X., Taura, F., Noguchi, H., Abe, I., Morita, H. "Structural basis for olivetolic acid formation by a polyketide cyclase from *Cannabis sativa*." **FEBS J.** 283, 1088-1106 (2016)
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50. **Mori, T.**, Hoshino, S., Sahashi, S., Wakimoto, T., Matsui, T., Morita, H., Abe, I. "Structural basis for the  $\beta$ -carboline alkaloids production by the microbial homodimeric enzyme McbB." **Chem. Biol.** 22, 898-906 (2015)
51. **Mori, T.**, Yang, D., Matsui, T., Hashimoto, M., Morita, H., Fujii, I., Abe, I. "Structural basis for the formation of acylalkylpyrones from two  $\beta$ -ketoacyl units by the fungal type III polyketide synthase CsyB." **J. Biol. Chem.** 290, 5214-5225 (2015)
52. Zhang, L., **Mori, T.**, Zheng, Q., Awakawa, T., Yan Y., Liu, W., Abe, I. "Rational control of polyketide extender units by structure-based engineering of a crotonyl-CoA carboxylase/reductase in antimycin biosynthesis." **Angew. Chem. Int. Ed.** 54, 13462-13465 (2015)
53. 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)
54. Wakimoto, T., Egami, Y., Nakashima, Y., Wakimoto, Y., **Mori, T.**, Awakawa, T., Ito, T., Kenmoku, H., Asakawa, Y., Piel, J., Abe, I. "Calyculin biogenesis in a marine sponge and microbe symbiont association." **Nature Chem. Biol.** 10, 648-655 (2014)
55. Matsuda, Y., Wakimoto, T., **Mori, T.**, Awakawa, T., Abe, I. "Complete biosynthetic pathway of anditomin: nature's sophisticated synthetic route to a complex fungal meroterpenoid." **J. Am. Chem. Soc.** 136, 15326-15336 (2014)

56. Awakawa, T., Zhang, L., Wakimoto, T., Hoshino, S., **Mori, T.**, Ito, T., Ishikawa, J., Tanner, M. E., Abe, I. "A methyltransferase initiates terpene cyclization in teleocidin B biosynthesis." *J. Am. Chem. Soc.* 136, 9910-9913 (2014)
57. Yang, Y., **Mori, T.**, Matsui, M., Hashimoto, M., Morita, H., Fujii, I., Abe, I. "Expression, purification and crystallization of a fungal type III polyketide synthase that produces the cspyrone." *Acta Cryst.* 70(Pt 6), 730-733 (2014)
58. Zhang, L., Chen, J., **Mori, T.**, Yan Y., Liu, W., Abe, I. "Crystallization, and preliminary X-ray diffraction analysis of AntE, a crotonyl-CoA carboxylase/reductase from *Streptomyces* sp. NRRL 2288." *Acta Cryst.* 70(Pt 6), 734-737 (2014)
59. **Mori, T.**, Shimokawa, Y., Matsui, T., Kinjo, K., Kato, R., Noguchi, H., Sugio, S., Morita, H., Abe, I. "Cloning and structure-function analyses of quinolone- and acridone-producing novel type III polyketide synthases from *Citrus microcarpa*." *J. Biol. Chem.* 288, 28845-28858 (2013)
60. Chen, J., Morita, H., Wakimoto, T., **Mori, T.**, Noguchi, H., Abe, I. "Prenylation of a nonaromatic carbon of indolylbutanone by a fungal indole prenyltransferase." *Org. Lett.* 14, 3080-3083 (2012)
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## 著書・総説

1. **Mori, T.**, Abe, I. "Lincosamide antibiotics; structure, activity, and biosynthesis." *ChemBioChem* 25, e202300840 (2024)
2. **Mori, T.**, Abe, I. "Functional analysis of a fungal P450 enzyme." *Methods in Enzymology* 693, 171-190 (2023)
3. **Mori, T.**, "Functions, structures, and engineering of the teleocidin biosynthetic enzymes." *Chem. Pharm. Bull.* 71, 188-197 (2023)
4. Awakawa, T., **Mori, T.**, Ushimaru, R., Abe, I. "Structure-based engineering of  $\alpha$ -ketoglutarate dependent oxygenases in fungal meroterpenoid biosynthesis." *Nat. Prod. Rep.* 40, 46-61 (2023)
5. **Mori, T.**, Nakashima, Y., Morita, Y., Abe, I. "Structure, function, and engineering of plant polyketide synthases." *Methods in Enzymology* 676, 3-48 (2022)
6. **Mori, T.**, Abe, I. "Structural basis for endoperoxide-forming oxygenases." *Beilstein J. Org. Chem.* 18, 707-721 (2022)

7. **Mori, T.** “Enzymatic studies on aromatic prenyltransferases.” *J. Nat. Med.* 75, 501-512 (2020)
8. Nakashima, Y., **Mori, T.**, Abe, I. ” $\alpha$ -Ketoglutarate-dependent enzyme AndA involved in anditomin biosynthesis.” *Encyclopedia of Inorganic and Bioinorganic Chemistry*, Wiley, DOI: 10.1002/9781119951438.eibc2735 (2020)
9. **Mori, T.**, Abe, I., “Fe(II)/ $\alpha$ -ketoglutarate-dependent dioxygenase PrhA.” *Encyclopedia of Inorganic and Bioinorganic Chemistry*, Wiley, DOI: 10.1002/9781119951438.eibc2695 (2019)
10. Matsuda, Y., Awakawa, T., **Mori, T.**, Abe, I. “Unusual chemistries in fungal meroterpenoid biosynthesis.” *Curr. Opin. Chem. Biol.* 31, 1-7 (2016)
11. **森貴裕**, 牛丸理一郎, 「これからの天然物化学に向けて」 *月刊ファインケミカル*, 51, 5-10 (2023)
12. **森貴裕**, 阿部郁朗, 「酵素の立体構造を基盤にした新規生体触媒の開発」 *化学*, 73, 32-36 (2018)
13. **森貴裕**, 阿部郁朗, 「結晶構造を基盤とした天然物の生合成酵素工学」 *化学工業*, 67, 56-61 (2016)
14. 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)
15. **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)