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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 酵素工学研究会 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
- 2025年9月 日本放線菌学会 浜田賞（研究奨励賞）

学術論文リスト

1. Jiang, R., Wasfy, N., **Mori, T.**, Hoang, M., Abe, I., Renata, H. “Harnessing a ketone-accepting Pictet-Spenglerase for the asymmetric construction of 1,1-disubstituted tetrahydro- β -carboline alkaloids.”
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2. **Mori, T.**,* Moriwaki, Y., Sakurada, K., Lyu, S., Kadlcik, S., Janata, J., Mazumdar, A., Koberka, 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**
3. Ushimaru, R., Zheng, Z., Xiong, J., **Mori, T.**, Abe, I., Guo, Y., Liu, H.-w. “Radical SAM FeS-cluster implicated as the sulphur donor during albomycin biosynthesis.” **Nature Catalysis** 8, in press (2025)
4. Zhu, Y., **Mori, T.**,* Karasawa, M., Shirai, K., Chen, W., Terada, T., Awakawa, T.,* Abe, I.* “Structure-function analysis of carrier protein-dependent 2-sulfamoylacetyl transferase in the biosynthesis of altemicidin.” **Nature Commun.** 15, Article number: 10896 (2024)
***co-corresponding author**
5. Awakawa, T.,† **Mori, T.**,† 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 β -NAD alkylating enzyme.” **Nature Catalysis** 7, 1099-1108 (2024)
†co-first author
6. **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**
7. **Mori, T.**,* Sun, X., Kadlcik, S., Janata, J., Abe, I.* “Structure-function analysis of the S-glycosylation reaction in lincosamide antibiotics biosynthesis.”
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8. 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.”
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9. 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.”
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10. Tao, H.,[†] Lauterbach, L.,[†] Bian, G.,[†] Chen, R.,[†] Hou, A.,[†] **Mori, T.**,[†] 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
11. Tao, H.,[†] **Mori, T.**,^{†,*} Chen, H., Lyu, S., Nonoyama, A., Lee, S., Abe, I.^{*} “Molecular insights into the unusually promiscuous and catalytically versatile Fe(II)/ α -ketoglutarate-dependent oxygenase SptF.” **Nature Commun.** 13, Article number: 95 (2022)
†co-first author, *co-corresponding author
12. Tao, H., Ushimaru, R., Awakawa, T., **Mori, T.**, Uchiyama, M., Abe, I. “Stereoselectivity and substrate specificity of the Fe(II)/ α -ketoglutarate-dependent oxygenase TqaL.” **J. Am. Chem. Soc.** 144, 21512-21520 (2022)
13. 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)
14. **Mori, T.**,^{*} Nakashima, Y., Chen, H., Hoshino, S., Mitsunashi, 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)
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15. **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)
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16. 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)
17. **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)
18. **Mori, T.**,^{*} Zhai, R., Ushimaru, R., Matsuda, Y., Abe, I.^{*} “Molecular insights into the endoperoxide formation by Fe(II)/ α -KG-dependent oxygenase Nvfl.” **Nature Commun.** 12, Article number: 4417 (2021)
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19. 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)

20. Yang, J.,[†] **Mori, T.**,^{†,*} 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
21. Bunno, T., Awakawa, T., **Mori, T.**, Abe, I. “Aziridine formation by a Fe(II)/ α -ketoglutarate dependent oxygenase and 2-aminoisobutyrate biosynthesis in fungi.” *Angew. Chem. Int. Ed.* 60, 15827-15831 (2021)
22. 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)
23. 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)
24. Morita, I.,[†] **Mori, T.**,[†] Abe, I. “Molecular basis for the P450-catalyzed C–N bond formation in indolactam biosynthesis.” *Chem. Eur. J.* 27, 2963-2972 (2021)
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25. **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
26. Jiang, J., Li, X., **Mori, T.**, Awakawa, T., Abe, I. “Novel cyclohexyl meroterpenes produced by combinatorial biosynthesis.” *Chem. Pharm. Bull.* 69, 444-446 (2021)
27. 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)
28. Morita, I.,[†] **Mori, T.**,[†] Mitsuhashi, T.,[†] Hoshino, S.,[†] 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)
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29. 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)
30. Bai, T., Matsuda, Y., Tao, H., **Mori, T.**, Zhang, Y., Abe, I. “Structural diversification of andiconin-derived natural products by α -ketoglutarate-dependent dioxygenases.” *Org. Lett.* 22, 4311-4315 (2020)

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32. He, F.,[†] **Mori, T.**,[†] Morita, I.,[†] 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
33. 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)
34. Hayashi, T., Tinzl, M., **Mori, T.**, Kregel, 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)
35. Awakawa, T., **Mori, T.**, Nakashima, Y., Zhai, R., Wong, C. P., Hillwig, M. L., Liu, X., Abe, I. “Molecular basis for Mg²⁺-dependent allosteric control of indole prenylation by aromatic prenyltransferase AmbP1.” *Angew. Chem. Int. Ed.* 57, 6810-6813 (2018)
36. 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)
37. 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)
38. 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)
39. 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)
40. **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)
41. 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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44. 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 α -halo ketones" *ACS Catalysis* 6, 6135-6140 (2016)
45. 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)
46. 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)
47. 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)
48. 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)
49. 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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53. 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)

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56. 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)
57. 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)
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60. **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)
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著書・総説

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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 α -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)
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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)