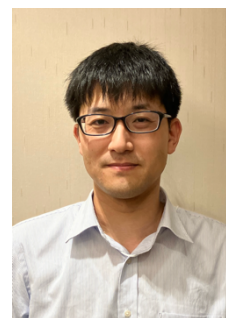


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- 2011年3月 名古屋大学理学部化学科卒業
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- 2022年11月 令和4年度 東京大学卓越研究員
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受賞歴

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- 2018年9月 Leon O. Morgan Fellowship (The University of Texas at Austin)
- 2020年7月 日本薬学会 生薬天然物部会奨励賞
- 2022年3月 日本化学会 第35回 若い世代の特別講演証
- 2023年6月 第24回 酵素応用シンポジウム 研究奨励賞
- 2023年6月 日本生薬学会 学術奨励賞
- 2023年7月 第22回 天然物化学談話会 奨励賞
- 2024年3月 日本薬学会 奨励賞
- 2024年5月 化学情報協会 JAICI 賞
- 2024年5月 酵素工学研究会 酵素工学奨励賞

学術論文リスト

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5. **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)
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7. **Ushimaru, R.**,* Lyu, J., Ling, M., Abe, I.* “Multiple C–C bond cleavage reactions catalyzed by tolyporphin tetrapyrrole biosynthetic enzymes.” *J. Am. Chem. Soc.* 145, 9834-9839 (2023)
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8. Ueno, K., **Ushimaru, R.**,* Abe, I.* “Photoinduced reductive dehalogenation of phenacyl bromides with pyridoxal-5'-phosphate.” *Chem. Pharm. Bull.* 71, 675-677 (2023)
*co-corresponding author
9. 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)
†co-first author, *co-corresponding author
10. 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.* 23, 8627–8632 (2022)
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11. Lyu, J., **Ushimaru, R.**,* Abe, I.* “Characterization of enzymes catalyzing the initial steps of the β -lactam tabtoxin biosynthesis.” *Org. Lett.* 24, 3337-3341 (2022)
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13. 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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15. Wang, S. A., Lin, C. I., Zhang, J., **Ushimaru, R.**, Sasaki, E., Liu, H.-w. "Studies of lincosamide formation complete the biosynthetic pathway for lincomycin A." *Proc. Natl. Acad. Sci. USA* 116, 24794-24801 (2020)
16. **Ushimaru, R.**, Liu, H.-w. "Biosynthetic origin of the atypical stereochemistry in the thioheptose core of albomycin nucleoside antibiotics." *J. Am. Chem. Soc.* 141, 2211-2214 (2019)
17. **Ushimaru, R.**, Ruzsyczky, M. W., Liu, H.-w. "Changes in regioselectivity of H atom abstraction during the hydroxylation and cyclization reactions catalyzed by hyoscyamine 6 β -hydroxylase." *J. Am. Chem. Soc.* 141, 1062-1066 (2019)
18. **Ushimaru, R.**, Ruzsyczky, M. W., Chang, W.-c., Yan, F., Liu, Y.-n., Liu, H.-w. "Substrate conformation correlates with the outcome of hyoscyamine 6 β -hydroxylase catalyzed oxidation reactions." *J. Am. Chem. Soc.* 140, 7433-7436 (2018)
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2. **Ushimaru, R.*** "Three-membered ring formation catalyzed by α -ketoglutarate-dependent nonheme iron enzymes." *J. Nat. Med.* 78, 21-32 (2024)

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