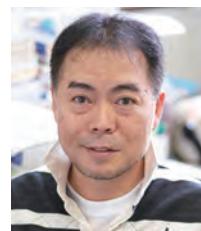


天然物有機化学研究室

STAFF

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天然物有機化学
有機化学特論(大学院)



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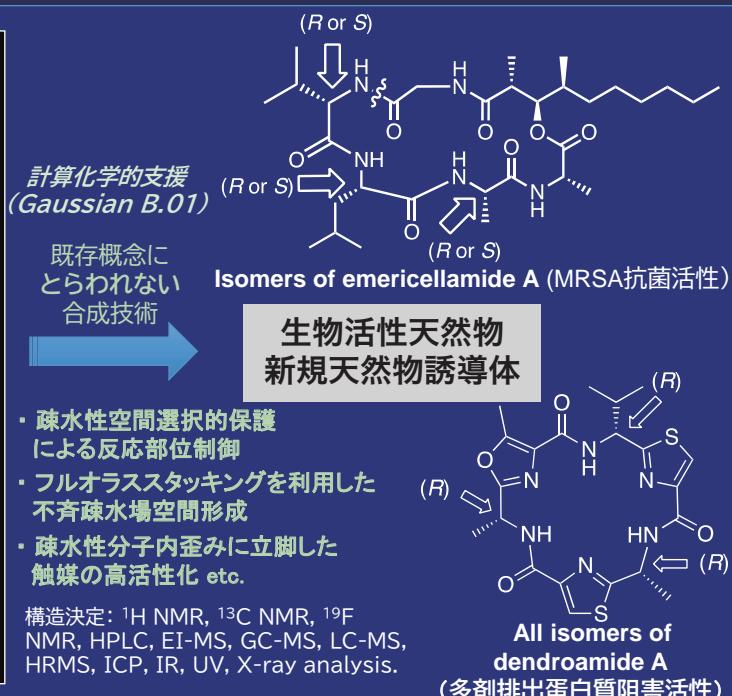
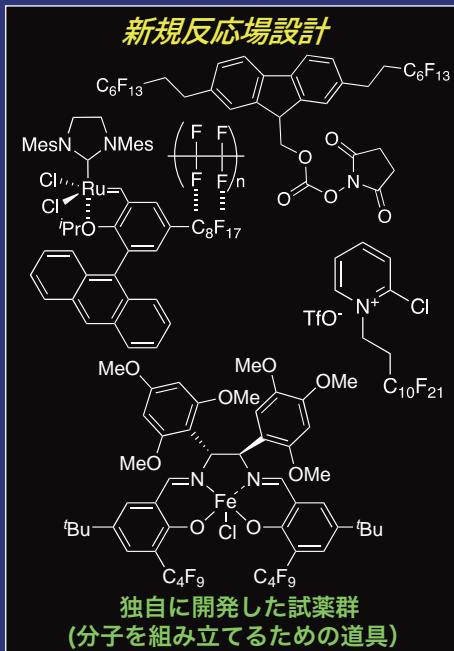
研究テーマ

分子レベルでの“究極のものづくり”

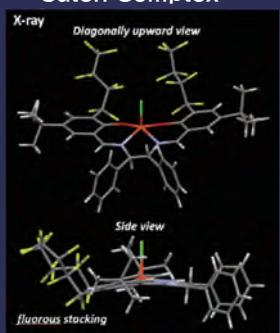
研究内容

独創的な方法論で分子物性を自在に操り、
天然物や自然界に無い新規生物活性物質を
化学合成（簡単な分子から複雑な分子をつくりあげること）しています

既存技術の・收率・立体選択性・位置選択性・官能基選択性を
凌駕する合成手法を目指し、望みの立体構造を持つ分子のみを効率良く精密合成します



X-ray Analysis of
Novel Chiral Fluorous Fe(III)
Salen Complex



質の良い自然界有効成分の大量合成 → 有効成分の機能解明
→ 誘導体合成 → よりよい機能性分子！



F-SPE with Blue (Organic)
and Orange (Fluorous) Dyes



最近の主な論文・著書／ Matsugi, M. et al.; Recent New Developments in Hofmann, Curtius, Schmidt, Lossen, and Related Reactions. *Comprehensive Organic Synthesis, 4th Edition*; Elsevier, 2024, in press.

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- Matsugi, M. et al.; Asymmetric Henry Reaction Using Cobalt Complexes with Bisoxazoline Ligands Bearing Two Fluorouryl Tags. *Molecules* 2023, 28, 7632.
- Matsugi, M. et al.; N-Methylated tetrapeptide synthesis via sequential filtration procedures based on Teflon immobilization utilizing the properties of fluorous 9-fluorenylmethyl ester. *Tetrahedron Lett.* 2023, 124, 154606.
- Matsugi, M. et al.; Synthesis of 1,5-disubstituted tetrazoles from nitrones using bis(*p*-nitrophenyl) phosphorazidate in the presence of 4-dimethylaminopyridine. *Synlett* 2022, 33, 781.
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- Matsugi, M. et al.; A solvent-free synthesis of 4-aryl-NH-1,2,3-triazoles from ketones utilizing diphenyl phosphorazide. *Synth. Commun.* 2022, 52, 1326.
- Shioiri, T. et al.; Cutting edge of diphenyl phosphorazide (DPPA) as a synthetic reagent - A fifty-year odyssey. *Org. Chem. Front.* 2022, 3360.