

Publication List

1. Keisuke Yoshida, Arisa Hidaka, Yuri Fukami, Yuta Fujino, Yuri Imaizumi, Ken-ichi Takao and Kitagaki Shinji. Manuscript in preparation
2. Akihiro Sakama, Akihiro Ogura, Keisuke Yoshida, and Ken-ichi Takao submitted
3. Keisuke Yoshida*, Hiroki Inoue, Yurika Oji, Hina Suzuki, and Ken-ichi Takao*, Enantioselective organocatalytic construction of spirochroman derivatives, *The Journal of Organic Chemistry*, accepted (2020)
4. Akihiro Sakama, Rika Kameshima, Yuko Motohashi, Wataru Sumida, Yuta Unno, Keisuke Yoshida, Akihiro Ogura, and Ken-ichi Takao, Stereoselective Synthesis of the Tricyclic Core of (–)-Callophycoic Acid A, *The Journal of Organic Chemistry*, accepted (2020)
5. Ken-ichi Takao, Akihiro Ogura, Keisuke Yoshida, Siro Simizu, Total Synthesis of Natural Products Using Intramolecular Nozaki–Hiyama–Takai–Kishi Reactions, *Synlett*, accepted (2020)
6. Ken-ichi Takao,* Hirotaka Kai, Ai Yamada, Yuuki Fukushima, Daisuke Komatsu, Akihiro Ogura, and Keisuke Yoshida, Total Syntheses of (+)-Aquatolide and Related Humulanolides *Angewandte Chemie International Edition* 58, 9851-9855 (2019)
7. Shinji Kitagaki, Mayuka Tsuji, Hideki Teramoto, Naoko Takenaga, Keisuke Yoshida, Planar chiral phosphino[2.2]paracyclophanol-catalyzed highly regio- and stereoselective [3+2] annulation reaction of Morita–Baylis–Hillman carbonates with dicyanomethyleneoxindoles, *Heterocycles*, 101, 127 - 144 (2020)
8. Tatsuki Nakajima, Keita Takiguchi, Keisuke Yoshida, Akihiro Ogura, Ken-ichi Takao, STUDIES TOWARD THE SYNTHESIS OF PERFORATUMONE: SYNTHESIS OF THE 7-OXABICYCLO[4.2.1]NONANE-8,9-DIONE CORE, *Heterocycles*, 99, 661-668, (2019)
9. Keisuke Yoshida*, Yuta Fujino, Yusei Takamatsu, Kohei Matsui, Akihiro Ogura, Yuri

Fukami, Shinji Kitagaki, and Ken-ichi Takao, * Enantioselective Total synthesis of (-)-Misramine, *Organic Letters*, 20, 5044-5047 (2018)

10. Shinji Kitagaki, Shunsuke Murata, Kisaki Asaoka, Kenta Sugisaka, Chisato Mukai, Naoko Takenaga, and Keisuke Yoshida, Planar chiral [2.2]paracyclophane-based bisoxazoline ligands: design, synthesis, and use in Cu-catalyzed inter- and intra-molecular asymmetric O-H insertion reactions, *Chem. Pharm. Bull.* 66, 1006-1014 (2018)
11. Ken-ichi Takao, Kento Mori, Kenya Kasuga, Ryuki Nanamiya, Ayumi Namba, Yuuki Fukushima, Ryuichi Nemoto, Takuma Mogi, Hiroyuki Yasui, Akihiro Ogura, Keisuke Yoshida, and Kin-ichi Tadano, Total synthesis of Clavilactones. *The Journal of Organic Chemistry*, 83 7060-7075 (2018)
12. Shinji Kitagaki, Kento Nakamura, Chiharu Kawabata, Asuna Ishikawa, Naoko Takenaga, Keisuke Yoshida, Enantioselective [3+2] Annulations of Allenolates and *N*-Tosylimines Catalyzed by Planar Chiral [2.2]Paracyclophane-based Phosphine-phenols. *Org. Biomol. Chem.*, 16, 1770-1778 (2018)
13. 吉田圭佑, * 失活しない強酸-塩基ペアによるカルボニル化合物の不斉 α -アミノ化
ファルマシアトピックス 2017, 53, 1111
14. Wataru Matsuki, So Miyazaki, Keisuke Yoshida, Akihiro Ogura, Yukiko Sasazawa, Ken-ichi Takao, Siro Simizu, Synthesis and evaluation of biological activities of vibsanin A analogs. *Bioorg. Med. Chem. Lett.* 27, 4536-4539 (2017)
15. Ken-ichi Takao, Ryuichi Nemoto, Kento Mori, Ayumi Namba, Keisuke Yoshida, Akihiro Ogura, Total Synthesis and Structural Revision of Clavilactone D. *Chemistry - A European Journal* 23, 3828-3831 (2017)
16. Keisuke Yoshida, Atsushi Hirata, Hisashi Hashimoto, Ayumi Imayoshi, Yoshihiro Ueda, Takumi Furuta, Takeo Kawabata, Organocatalytic Chemoselective Monoacylation of 1,*n*-Linear Disulfonamides. *Tetrahedron Letters* 58, 1030-1033 (2017)
17. Weizhun Yang, Sherif Ramadan, Bo Yang, Keisuke Yoshida, Xuefei Huang, Homoserine as an Aspartic Acid Surrogate for Synthesis of Proteoglycan Glycopeptide Containing Aspartic Acid and Sulfated Glycan Chain. *The Journal of Organic Chemistry* 81,

12052-12059 (2016)

18. Weizhun Yang, Keisuke Yoshida, Bo Yang, Xuefei Huang, Obstacles and Solutions for Chemical Synthesis of Syndecan-3 (53-62) Glycopeptides with Two Heparan Sulfate Chains. *Carbohydrate research* **435**, 180-194 (2016)
19. Keisuke Yoshida, * Yohei Kanoko, Ken-ichi Takao , Kinetically Controlled α -Selective *O*-Glycosylation of Phenol Derivatives Using 2-Nitroglycals by a Bifunctional Chiral Thiourea Catalyst. *Asian Journal of Organic Chemistry* **5**, 1230-1236 (2016)
20. Akihiro Sakama, Yoshiyasu Nishimura, Yuko Motohashi, Keisuke Yoshida, Ken-ichi Takao, Stereoselective construction of all-carbon quaternary stereocenters by allylboration of chiral aldehydes: synthesis of a fragment of (+)-vibsanin A. *Tetrahedron* **72**, 5464-5471 (2016)
21. Keisuke Yoshida, * Hina Suzuki, Hiroki Inoue, Yuta Fujino, Yohei Kanoko, Yukihiro Itatu, Ken-ichi Takao , Organocatalytic regioselective Chlorosilylation of Oxiran derivatives: Mild and Effective Insertion of the Bulky Silyl Chloride by Using 4-Methoxy Pyridine *N*-oxide. *Advanced Synthesis & Catalysis* **358**, 1886-1891 (2016)
22. Ayumi Imayoshi, Masahiro Yamanaka, Makoto Sato, Keisuke Yoshida, Takumi Furuta, Yoshihiro Ueda, Takeo Kawabata, Insights into the Molecular Recognition Process in Organocatalytic Chemoselective Monoacylation of 1,5-Pentanediol. *Advanced Synthesis & Catalysis* **358**, 1337-1344 (2016)
23. Keisuke Yoshida, * Yukihiro Itatu, Yuta Fujino, Hiroki Inoue, Ken-ichi Takao , Enantioselective Organocatalytic Construction of Spiroindane Derivatives by Intramolecular Friedel-Crafts-type 1,4-addition. *Angewandte Chemie International Edition* **55**, 6734-6738 (2016) *Highlighted in *Synfacts* 2016, 12, 861
24. So Miyazaki, Yukiko Sasazawa, Takuma Mogi, Takehiro Suzuki, Keisuke Yoshida, Naoshi Dohmae, Ken-ichi Takao, Siro Simizu , Identification of a seco-clavilactone B as a small-molecule actin polymerization inhibitor. *FEBS Letters* **590**, 1163-1173 (2016)
25. Keisuke Yoshida, * Yuta Fujino, Yukihiro Itatu, Hiroki Inoue, Yohei Kanoko, Ken-ichi Takao , Amine free silylation of alcohols under 4-methylpyridine *N*-oxide-catalyzed

conditions. *Tetrahedron Letters* **57**, 627–631 (2016)

26. Bo Yang, Keisuke Yoshida, Xuefei Huang, Strategies for One-Pot Synthesis of Oligosaccharides. *Wiley STM Glycochemical Synthesis : Strategies and Applications*, Edited by Shang-Cheng Huang Chapter 6 (2015)
27. 高尾賢一, 吉田圭佑, 只野金一, 連続オレフィンメタセシス反応を用いた天然物の全合成 有機合成化学協会誌 総合論文 (2015)
28. 吉田圭佑,* 立体及び位置選択的な触媒的エポキシ化 ~配向基からどれだけの距離にあるオレフィンを選択的にエポキシ化できるか?~. 有機合成化学協会誌 *Review de Debut* (2015)
29. Ken-ichi Takao, Shuji Noguchi, Shu Sakamoto, Mizuki Kimura, Keisuke Yoshida, Kin-ichi Tadano, Total Synthesis of (+)-Cytosporolide A via a Biomimetic Hetero-Diels-Alder Reaction. *The Journal of American Chemical Society* **137**, 15971–15977 (2015)
*Highlighted in *Synfacts* **2016**, 12, 222
30. Masahiro Yamanaka, Urara Yoshida, Makoto Sato, Takashi Shigeta, Keisuke Yoshida, Takumi Furuta, Takeo Kawabata, Origin of High E-Selectivity in 4-Pyrrolidinopyridine-Catalyzed Tetrasubstituted α,α' -Alkenediol: A Computational and Experimental Study. *The Journal of Organic Chemistry* **80**, 3075–3082 (2015)
31. Ken-ichi Takao, Kohei Tsunoda, Takuya Kurisu, Akihiro Sakama, Yoshiyasu Nishimura, Keisuke Yoshida, Kin-ichi Tadano, Total Synthesis of (+)-Vibsanin A. *Organic Letters* **17**, 756–759 (2015)
32. Keisuke Yoshida, * Ken-ichi Takao, Catalytic silylation of secondary alcohols by pyridine N-oxide derivative. *Tetrahedron Letters* **55**, 6861–6863 (2014)
33. Keisuke Yoshida, Bo Yang, Weizhun Yang, Zeren Zhang, Jicheng Zhang, Xuefei Huang, Chemical synthesis of syndecan-3 glycopeptides bearing two heparin sulfate glycan Chains. *Angewandte Chemie International Edition* **51**, 10185–10189 (2014)
34. 吉田圭佑, 単一糖鎖構造を有するエリスロポエチン *Chemical Biology, News & View* **6**, 12 (2013)

35. Ken-ichi Takao, Ryuki Nanamiya, Yuuki Fukushima, Ayumi Namba, Keisuke Yoshida, Kin-ichi Tadano , Total synthesis of (+)-clavilactone A and (–)-clavilactone B by ring-opening/ring-closing metathesis. *Organic Letters* **15**, 5582–5585 (2013)
36. Keisuke Yoshida, Kenji Mishiro, Yoshihiro Ueda, Takeshi Shigeta, Takumi Furuta, Takeo Kawabata , Nonenzymatic geometry-selective acylation of tri- and tetra- substituted α,α' -alkenediols. *Advanced Synthesis & Catalysis* **354**, 3291–3298 (2012)
37. Bo Yang, Keisuke Yoshida, Zhaojun Yin, Hang Dai, Herbert Kavunja, Mohammad El-Dakdouki, Suttipun Sungsuwan, Steven DuLaney, Xuefei Huang , Chemical synthesis towards homogeneous heparin sulfate proteoglycan Syndecan-1. *Angewandte Chemie International Edition* **51**, 10185–10189 (2012)
38. Hartmut Schedel, Keizo Kan, Yoshihiro Ueda, Kenji Mishiro, Keisuke Yoshida, Takumi Furuta, Takeo Kawabata , Asymmetric desymmetrization of meso-diols by C2-symmetric chiral 4-pyrrolidinopyridines. *Beilstein Journal of Organic Chemistry* **8**, 1778–1787 (2012)
39. Yoshihiro Ueda, Kenji Mishiro, Keisuke Yoshida, Takumi Furuta, Takeo Kawabata , Regioselective diversification of a cardiac glycoside, lanatoside C, by organocatalysis. *The Journal of Organic Chemistry* **77**, 7850–7857 (2012)
40. Keisuke Yoshida, Takeshi Shigeta, Takumi Furuta, Takeo Kawabata , Catalyst-controlled reversal of chemoselectivity in acylation of 2-aminopentane-1,5-diol derivatives. *Chemical Communications* **48**, 6981–6983 (2012)
41. Keisuke Yoshida, Takumi Furuta, Takeo Kawabata, Organocatalytic chemoselective monoacylation of 1,n-linear diols. *Angewandte Chemie International Edition* **50**, 4888–4892 (2011)
42. Keisuke Yoshida, Takumi Furuta, Takeo Kawabata, Perfectly regioselective acylation of a cardiac glycoside, digitoxin, via catalytic amplification of the intrinsic reactivity. *Tetrahedron Letters* **51**, 4830–4832 (2010)
43. Chihiro Ito, Masataka Itoigawa, Kie Aizawa, Keisuke Yoshida, Nijsiri Ruangrunsi, Hiroshi Furukawa , γ -Lactone carbazole from Clausena anisata. *Journal of Natural*

Products 72, 1202–1204 (2009)

招待講演(Invited lecture)

- 1) 2本のヘパラン硫酸鎖をもつ Syndecan-3 の化学合成、日本糖質学会年会、2015年8月（東京大学）

- 2) 天然物の全合成および医薬品合成を志向する有機触媒反応の開発、第178回薬学談話会、2018年6月（名古屋市立大学薬学部）

- 3) Enantioselective Total Synthesis of (-)-Misramine
ICPAC LANGKAWI 2018、2018年10月30日（ランカウイ島 in マレーシア）