

## Publications List:

January 5, 2021

1. “ $\beta$ -Selective glycosylation using axial-rich and 2-O-rhamnosylated glucosyl donors controlled by the protecting pattern of the second sugar” M. Bando, Y. Kawasaki, O. Nagata, Y. Okada, D. Ikuta, K. Ikeuchi\*, H. Yamada, *Chem. Pharm. Bull.* **2021**, *69*, 124–140. DOI: [org/10.1248/cpb.c20-00733](https://doi.org/10.1248/cpb.c20-00733)
2. “Synthesis of an Ellagitannin Component, the Macaranoyl Group with a tetra-ortho-Substituted Diaryl Ether Structure”  
H. Hashimoto, T. Ishimoto, H. Konishi, T. Hirokane, S. Wakamori, K. Ikeuchi\*, H. Yamada  
*Org. Lett.* **2020**, *22*, 6729–6733. DOI: [org/10.1021/acs.orglett.0c02066](https://doi.org/10.1021/acs.orglett.0c02066)
3. “Total Synthesis of Mallotusin”  
K. Yamashita, Y. Kume, S. Ashibe, C. A. D. Puspita, K. Tanigawa, N. Michihata, S. Wakamori, K. Ikeuchi\*, H. Yamada  
*Chem. Eur. J.* **2020**, *26*, 16408–16421. DOI: [org/10.1002/chem.202002753](https://doi.org/10.1002/chem.202002753)
4. “*p*-Methylbenzyl 2,2,2-trichloroacetimidate: Simple Preparation and Application to Alcohol Protection”  
K. Ikeuchi\*, K. Murasawa, T. Arai, H. Yamada  
*Chem. Lett.* **2020**, *49*, 1034–1037. DOI: [org/10.1246/cl.200303](https://doi.org/10.1246/cl.200303)
5. “Total Synthesis of Casuarinin”  
S. Wakamori, S. Matsumoto, R. Kusuki, K. Ikeuchi, H. Yamada  
*Org. Lett.* **2020**, *22*, 3392–3396. DOI: [org/10.1021/acs.orglett.0c00876](https://doi.org/10.1021/acs.orglett.0c00876)
6. “Synthesis of Diaryl Ether Components of Ellagitannins Using Ortho-quinone with Consonant Mesomeric Effects”  
H. Konishi, T. Hirokane, H. Hashimoto, K. Ikeuchi, S. Matsumoto, S. Wakamori\*, H. Yamada\*  
*Chem. Commun.*, **2020**, *56*, 3991–3994. DOI: [10.1039/D0CC00889C](https://doi.org/10.1039/D0CC00889C)
7. “First Total Synthesis of Neostictinin”  
K. Ikeuchi\*, T. Ueji, S. Matsumoto, S. Wakamori, H. Yamada\*  
*Eur. J. Org. Chem.* **2020**, 2077–2085. DOI: [10.1002/ejoc.202000053](https://doi.org/10.1002/ejoc.202000053)
8. “*p*-Methylbenzyl Group: Oxidative Removal and Orthogonal Alcohol”  
K. Ikeuchi\*, K. Murasawa, K. Ohara, H. Yamada\*  
*Org. Lett.* **2019**, *21*, 6638–6642. DOI: [10.1021/acs.orglett.9b02144](https://doi.org/10.1021/acs.orglett.9b02144)
9. “A Fairy Chemical, Imidazole-4-carboxamide, is Produced on a Novel Purine Metabolic Pathway in Rice”

- H. Takemura, J.-H. Choi, N. Matsuzaki, Y. Taniguchi, J. Wu, H. Hirai, R. Motohashi, T. Asakawa, K. Ikeuchi, M. Inai, T. Kan, H. Kawagishi\*
- Sci. Rep.* **2019**, 9:9899. DOI: [10.1038/s41598-019-46312-7](https://doi.org/10.1038/s41598-019-46312-7)
10. “A Simple Method for the Preparation of Stainless and Highly Pure Trichloroacetimidates”  
K. Ikeuchi\*, K. Murasawa, H. Yamada\*  
*Synlett* **2019**, 30, 1308–1312. DOI: [10.1055/s-0037-1611551](https://doi.org/10.1055/s-0037-1611551)
11. “Conformationally supplied glucose monomers enable synthesis of the smallest cyclodextrins”  
D. Ikuta, Y. Hirata, S. Wakamori, H. Shimada, Y. Tomabechi, Y. Kawasaki, K. Ikeuchi, T. Hagimori, S. Matsumoto, H. Yamada\*  
*Science*, **2019**, 364, 674–677. DOI: [10.1126/science.aaw3053](https://doi.org/10.1126/science.aaw3053)
12. “Development of Methods Aimed at Syntheses of All Ellagitannins”  
K. Ikeuchi, S. Wakamori, T. Hirokane, H. Yamada\*  
*J. Synth. Org. Chem.* **2018**, 76, 904–913. DOI: [org/10.5059/yukigoseikyokaishi.76.904](https://doi.org/10.5059/yukigoseikyokaishi.76.904)
13. “Synthesis of double-<sup>13</sup>C-labeled imidazole derivatives”  
H. Ouchi, T. Asakawa, K. Ikeuchi, M. Inai, J.-H. Choi, H. Kawagishi, T. Kan\*  
*Tetrahedron Lett.* **2018**, 59, 3516–3518. DOI: [org/10.1016/j.tetlet.2018.07.048](https://doi.org/10.1016/j.tetlet.2018.07.048)
14. “Structural Revisions in Natural Ellagitannins”  
H. Yamada\*, S. Wakamori, T. Hirokane, K. Ikeuchi, S. Matsumoto  
*Molecular*, **2018**, 23, 1901/1–1901/46. DOI: [org/10.3390/molecules23081901](https://doi.org/10.3390/molecules23081901)
15. “ $\alpha$ -Selective glycosylation of 3,6-*O*-xylylene bridged glucosyl fluoride”  
A. Motoyama, T. Arai, K. Ikeuchi, K. Aki, S. Wakamori, H. Yamada\*  
*Synthesis*, **2018**, 50, 282–294. DOI: [10.1055/s-0036-1590927](https://doi.org/10.1055/s-0036-1590927)
16. “Non-enzymatic Oxidation of a Pentagalloylglucose Analog to Ellagitannins”  
S. Ashibe, K. Ikeuchi, Y. Kume, S. Wakamori, Y. Ueno, T. Iwashita, H. Yamada\*  
*Angew. Chem. Int. Ed.* **2017**, 56, 15402–15406. DOI: [org/10.1002/anie.201708703](https://doi.org/10.1002/anie.201708703)
17. “Total Synthesis of Lagerstannin C: Follow-up of the Khanbabae’s Synthesis”  
Y. Kaneko, S. Wakamori, K. Ikeuchi, K. Ohara, T. Tanaka, H. Yamada\*  
*Synthesis*, **2017**, 49, 5003–5006. DOI: [10.1055/s-0036-1588477](https://doi.org/10.1055/s-0036-1588477)
18. “Fundamental methods in ellagitannin synthesis”  
H. Yamada\*, T. Hirokane, K. Ikeuchi, S. Wakamori  
*Nat. Prod. Commun.* **2017**, 12, 1351–1358. DOI: [10.1177/1934578X1701200846](https://doi.org/10.1177/1934578X1701200846)

19. "Total Syntheses of Laevigatin A and E"  
T. Hirokane, K. Ikeuchi, H. Yamada\*  
*Eur. J. Org. Chem.* **2015**, 7352–7359. DOI: [org/10.1002/ejoc.201501037](https://doi.org/10.1002/ejoc.201501037)
20. "Practical synthesis of natural plant-growth regulator 2-azahypoxanthine, its derivatives, and biotin-labeled probes"  
K. Ikeuchi, R. Fujii, S. Sugiyama, T. Asakawa, M. Inai, Y. Hamashima, J.-H. Choi, T. Suzuki, H. Kawagishi\*, T. Kan\*  
*Org. Biomol. Chem.* **2014**, *12*, 3813–3815. DOI: [org/10.1039/C4OB00705K](https://doi.org/10.1039/C4OB00705K)
21. "Enantioselective Synthesis of SB-203207"  
Y. Hirooka, K. Ikeuchi, Y. Kawamoto, Y. Akao, T. Furuta, T. Asakawa, M. Inai, T. Wakimoto, T. Fukuyama, T. Kan\*  
*Org. Lett.* **2014**, *16*, 1646–1649. DOI: [org/10.1021/ol5002973](https://doi.org/10.1021/ol5002973)
22. "Stereocontrolled total synthesis of sphingofungin E"  
K. Ikeuchi, M. Hayashi, T. Yamamoto, M. Inai, T. Asakawa, Y. Hamashima, T. Kan\*  
*Eur. J. Org. Chem.* **2013**, 6789–6792. DOI: [org/10.1002/ejoc.201301065](https://doi.org/10.1002/ejoc.201301065)
23. "Catalytic Desymmetrization of Cyclohexadienes by Asymmetric Bromolactonization"  
K. Ikeuchi, S. Ido, S. Yoshimura, T. Asakawa, M. Inai, Y. Hamashima\*, T. Kan\*  
*Org. Lett.* **2012**, *14*, 6016–6019. DOI: [org/10.1021/ol302908a](https://doi.org/10.1021/ol302908a)
24. "Modified Julia-Kocienski Reaction Promoted by Means of *m*-NPT (Nitrophenyltetrazole) sulfone"  
Y. Sakai, K. Ikeuchi, Y. Yamada, T. Wakimoto, T. Kan\*  
*Synlett*, **2010**, 827–829. DOI: [10.1055/s-0029-1219386](https://doi.org/10.1055/s-0029-1219386)