

Curriculum Vitae

Kenta Rakumitsu Ph.D.

Assistant Professor

Department of Materials and Life Science,

Faculty of Science and Technology, Seikei University

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Date of Birth: Sep 19, 1993



Education

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| Apr. 2012-Mar. 2016 | B.Sc. in Organic Chemistry, Kumamoto University (Prof. Hayato Ishikawa) |
| Apr. 2016-Mar. 2018 | M.Sc. in Organic Chemistry, Kumamoto University (Prof. Hayato Ishikawa) |
| Apr. 2018-Mar. 2021 | Ph.D. in Organic Chemistry, Kumamoto University (Prof. Hayato Ishikawa)
Thesis title: Bioinspired Collective Total Syntheses of Secologanin and Glycosylated Monoterpenoid Indole Alkaloids |

Academic Career

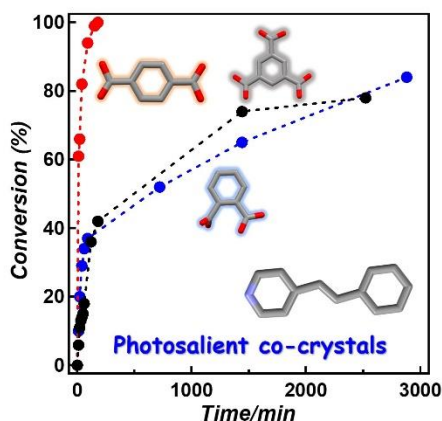
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| Apr. 2021- present | Assistant Professor, Department of Materials and Life Science,
Faculty of Science and Technology, Seikei University
working with Professor Akihiro Yokoyama |
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Publications

- (6) Photodimerization and photosolient effects of 4-styrylpyridine cocrystals using aromatic polycarboxylic acids as hydrogen bonding templates

Sotaro Kusumoto,* Kei Sato, Kenta Rakumitsu, Yang Kim, Yoshihiro Koide*

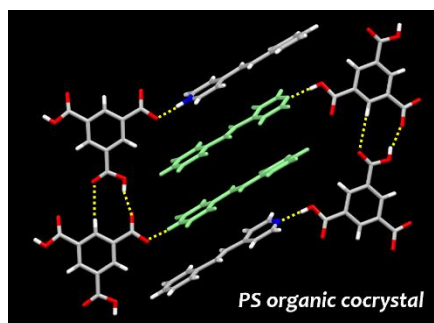
Crystal Growth & Design, **2023**, *23*, 8972-8977. DOI: <https://doi.org/10.1021/acs.cgd.3c01014>



- (5) Photosolient ionic cocrystal composed of trimesic acid and 4-styrylpyridine

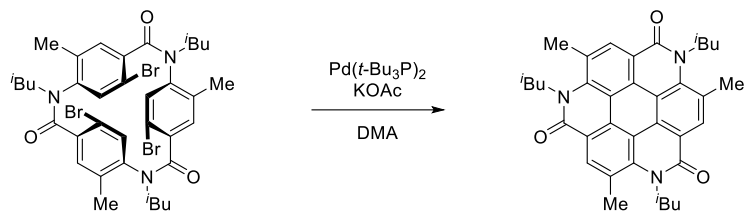
Sotaro Kusumoto,* Kei Sato, Kouki Muraie, Shunya Masuda, Kenta Rakumitsu, Yang Kim, Yoshihiro Koide*

CrystEngComm, **2023**, *25*, 909-912. DOI: <https://doi.org/10.1039/D2CE01592G>



- (4) Synthesis, crystal structure, and properties of methyl-substituted coronene amide analogue
Kenta Rakumitsu, Miho Fujii, Sotaro Kusumoto, Shoko Kikkawa, Isao Azumaya, Akihiro Yokoyama*

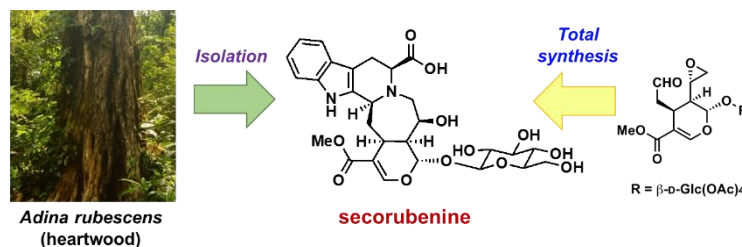
RSC Adv., **2022**, *12*, 26411-26417. DOI: <https://doi.org/10.1039/D2RA04035B>



(3) Secorubenine, a Monoterpenoid Indole Alkaloid Glycoside from *Adina rubescens*: Isolation, Structure Elucidation, and Enantioselective Total Synthesis

Nanako Nakashima, Jukiya Sakamoto, Kenta Rakumitsu, Mariko Kitajima, L. D. Juliawaty, Hayato Ishikawa*

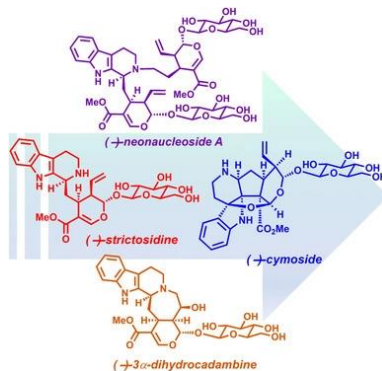
Chem. Pharm. Bull. **2022**, *70*, 187-191. DOI: <https://doi.org/10.1248/cpb.c21-00931>



(2) Total Syntheses of (-)-Strictosidine and Related Indole Alkaloid Glycosides

Jukiya Sakamoto, Yuhei Umeda, Kenta Rakumitsu, Michinori Sumimoto, Hayato Ishikawa*

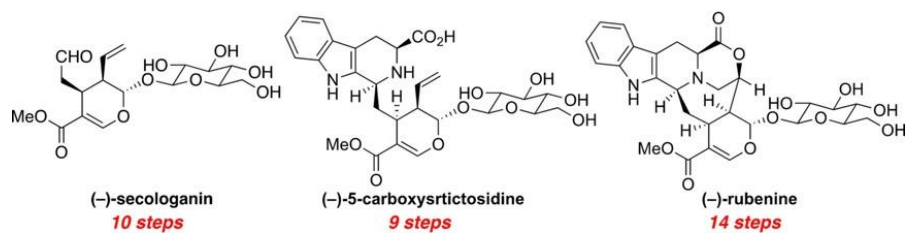
Angew. Chem. Int. Ed. **2020**, *59*, 13414-13422. DOI: <https://doi.org/10.1002/anie.202005748>



(1) Total Syntheses of (-)-Secologanin, (-)-5-Carboxystrictosidine and (-)-Rubenine

Kenta Rakumitsu, Jukiya Sakamoto, Hayato Ishikawa*

Chem. Eur. J. **2019**, *25*, 8996-9000. DOI: <https://doi.org/10.1002/chem.201902073>



Honor, Award and Fellowships

- (3) Promotion of Science Research Fellowship (DC2) for Arp. 2020- Mar. 2021
- (2) Outstanding Poster Presentation Award, 9th. The Chemical Society of Japan Festa in 2019
- (1) Best Poster Presentation Award, 29th Banyu-Fukuoka Symposium in 2019 Japan Society for the

Grant

- (1) KAKENHI, Grant-in-Aid for Young Scientists (2023-2025)

「スマネンの新規合成法の開発およびアザスマネン類の合成」