

Curriculum Vitae

Hugh Nakamura

Appointment

The Hong Kong University of Science and Technology (HKUST), Assistant Professor
Department of Chemistry, Clear Water Bay, 999077 Hong Kong SAR, China

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Researchmap: https://researchmap.jp/total_synthesis?lang=en

Professional Experiences

- 2021–present Assistant Professor, Department of Chemistry
The Hong Kong University of Science and Technology
- 2017–2021 JSPS Overseas Postdoctoral Fellowship, Scripps Research (La Jolla, CA, USA)
(Advisor: [Prof. Phil S. Baran](#))

Education

- 2014–2017 Ph.D. Pharmaceutical Sciences, Kyoto University (Kyoto, Japan)
(Advisor: [Prof. Yoshiji Takemoto](#)), JSPS Fellowship DC1
- 2012–2014 M.S. Pharmaceutical Sciences, Kyoto University (Kyoto, Japan)
(Advisor: [Prof. Yoshiji Takemoto](#)), JASSO Fellowship
- 2008–2012 B.S. Chemistry, Keio University (Tokyo, Japan)
(Advisor: [Prof. Noritaka Chida](#))

Awards

- 2025, Junior Scientists Participation Fellowship, The Bürgenstock Conference, Switzerland
- 2024, Early Career Award (Research Grants Council), Hong Kong
- 2024, Asian Core Program Lectureship Award (by Korea), ICCEOCA-17 in Taiwan
- 2024, Asian Core Program Lectureship Award (by Japan), ICCEOCA-17 in Taiwan
- 2023, Asian Core Program Lectureship Award (by Taiwan), ICCEOCA-16 in Singapore
- 2023, Asian Core Program Lectureship Award (by China), ICCEOCA-16 in Singapore
- 2022, The Interstellar Initiative Early Career Investigators (NYAS & AMED)
- 2019, Meeting of Minds @HKU Forum for Outstanding Young Scholars
- 2017–2019, JSPS Postdoctoral Fellowship for Research Abroad
- 2015, The 6th Otsu Academy Award Fellowship
- 2015, 13th Organic Chemistry the Next Generation: Best Oral Presentation Award
- 2014–2017, JSPS Research Fellowship DC1
- 2014, 134th Pharmaceutical Society of Japan conference: Best Presentation Award
- 2014, 31st Organic Synthesis Symposium: Best Poster Presentation Award
- 2012–2014, Japan Student Services Organization Fellowship

Publication

[Independent Work]

27. L. Yu[§], J. Zhang[§], X. Zhang[§], X. Wu[§], R. Liu, C. H. Au, H. Ogawa, R. Tong,* **H. Nakamura***
"Unified Access to Biaryl-Bridged Linkages Unlocks Structural Diversification of Noncanonical Cyclic Peptides"
[*J. Am. Chem. Soc.* **2026** \(Accepted\)](#)
(*ChemRxiv* version: <https://chemrxiv.org/doi/full/10.26434/chemrxiv.15001361/v1>)
26. H. Ogawa[§], L. Yu[§], S. Li, Y. Nagata, T.-K. Chan, Y. Matsuda, J. Liu, Y.-X. Li, **H. Nakamura***
"Reprogramming RiPP Scaffolds through Skeletal Editing Unlocks Chemical Space"
[*Chem. Sci.* **2026** \(Accepted\)](#)
25. J. Zhang, **H. Nakamura***
"Scalable Access to *N*-Acylindole Linkages: Enabling the Synthesis of Antitrypanosomal Noncanonical Cyclic Peptides for Chagas Disease"
[*Angew. Chem. Int. Ed.* **2026**, *65*, e26149](#)
24. H. Ogawa, **H. Nakamura***
"Advances in Zr-mediated radical transformations and applications to total synthesis"
[*Beilstein J. Org. Chem.* **2026**, *22*, 71–87 \(Invited contribution\)](#)
Special issue "Concept-driven strategies in target-oriented synthesis"
23. L. Yu[§], S. Li[§], H. Ogawa[§], Y. Ma, Q. Chen, K. Yamazaki, Y. Nagata*, **H. Nakamura***
"Fe-Electrocatalytic Deoxygenative Giese Reaction" (§These authors contributed equally.)
[*Nat. Commun.* **2025**, *16*, 8379](#)
22. H. Ogawa, Y. Nagata, T.-K. Chan, Y. Matsuda, **H. Nakamura***
"Rapid Construction of a Tyr C6–Trp C5' Linkage: Application in the Total Synthesis of Micitide 982, a Noncanonical Cyclic Peptide"
[*Angew. Chem. Int. Ed.* **2025**, *64*, e202516053](#)
21. L. Yu[§], H. Ogawa[§], S. Li[§], T. L. Cheung[§], W. Liu, D. Yan, Y. Matsuda, Y. Kobayashi, Z. Guo, K. Ikeda, T. A. Hamlin, K. Yamazaki*, P.-Y. Qian*, **H. Nakamura***
"Concise Synthesis of Cyclotryptomycin A and B Enabled by Zr-catalyzed Dimerization"
(§These authors contributed equally.)
[*Angew. Chem. Int. Ed.* **2025**, *64*, e202414295](#)
20. J. Zhang[§], L. Yu[§], H. Ogawa, Y. Nagata, **H. Nakamura***
"Modular, Scalable Total Synthesis of Lapparbin with a Noncanonical Biaryl Linkage"
[*Angew. Chem. Int. Ed.* **2024**, *63*, e202409987](#)
19. **Hugh Nakamura***
"Introducing ..."
[*Angew. Chem. Int. Ed.* **2024**, *63*, e202415362](#)
18. L. Yu, Y. Nagata, **H. Nakamura***
"Atroposelective Total Synthesis of Cihunamide B"
[*J. Am. Chem. Soc.* **2024**, *146*, 2549–2555](#)
17. H. Ogawa, **H. Nakamura***
"Atroposelective Total Synthesis of Strecintide 839"
[*Tetrahedron Chem.* **2024**, *11*, 100084 \(Invited contribution\)](#)
16. H. Ogawa, Y. Nagata, **H. Nakamura***
"Modular, Scalable Total Synthesis of Neopetromin"
[*Chin. J. Chem.*, **2024**, *42*, 3023–3028 \(Invited contribution\)](#)
15. L. Yu, **H. Nakamura***
"Short, Scalable Access to Pyrrovobasine"
[*JACS Au* **2023**, *3*, 3000–3004](#)

[Supervised Work]

14. Y.-C. Lin, F. Schneider, K. J. Eberle, D. Chiodi, **H. Nakamura**, S. H. Reisberg, J. Chen, M. Saito, P. S. Baran
"Atroposelective Total Synthesis of Darobactin A"
[*J. Am. Chem. Soc.* **2022**, *144*, 14458–14462](#)
13. **H. Nakamura**, K. Yasui, P. S. Baran
"Total Synthesis of Teleocidins B-1-B-4 by Redox-Relay Chain Walking (RRCW)"
[*J. Synth. Org. Chem. Jpn.* **2021**, *79*, 333–343](#)
12. Y. Kanda, **H. Nakamura**, S. Umemiya, R. K. Puthukanoori, V. R. M. Appala, G. K. Gaddamanugu, B. R. Paraselli, P. S. Baran
"Two-Phase Synthesis of Taxol"
[*J. Am. Chem. Soc.* **2020**, *142*, 10526–10533](#)
11. **H. Nakamura**, C. Tsukano, T. Yoshida, M. Yasui, S. Yokouchi, Y. Kobayashi, M. Igarashi, Y. Takemoto
"Total Synthesis of Caprazamycin A: Practical and Scalable Synthesis of syn- β -Hydroxyamino Acids and Introduction of a Fatty Acid Side Chain to 1,4-Diazepanone"
[*J. Am. Chem. Soc.* **2019**, *141*, 8527–8540](#)
10. **H. Nakamura**, K. Yasui, Y. Kanda, P. S. Baran
"11-Step Total Synthesis of Teleocidins B-1-B-4"
[*J. Am. Chem. Soc.* **2019**, *141*, 1494–1497](#)
9. **H. Nakamura**, M. Kawakami, C. Tsukano, Y. Takemoto
"Construction of ACDE Ring System of Calyciphylline A-type Alkaloids via Intramolecular Diels-Alder Reaction of a Tetra-substituted Olefin"
[*Synlett* **2019**, *30*, 2253–2257](#)
8. **H. Nakamura**, M. Kawakami, C. Tsukano, Y. Takemoto
"Concise construction of the ACDE ring system of calyciphylline A type alkaloids by a [5+2] cycloaddition"
[*Chem. Eur. J.* **2019**, *25*, 8701–8704](#)
7. Y. Kawamata, J. C. Vantourout, D. P. Hickey, P. Bai, L. Chen, Q. Hou, W. Qiao, K. Barman, M. Edwards, A. G. Castro, D. S. Peters, J. deGruyter, **H. Nakamura**, K. Knouse, C. Qin, K. J. Clay, D. Bao, C. Li, J. T. Starr, N. Sach, M. Neurock, S. D. Minter, H. White, P. S. Baran
"Electrochemically Driven, Ni-Catalyzed Aryl Amination: Scope, Mechanism, and Applications"
[*J. Am. Chem. Soc.* **2019**, *141*, 6392–6402](#)
6. Y. Takahira, M. Chen, Y. Kawamat, P. Mykhailiuka, **H. Nakamura**, B. K. Peters, S. H. Reisberg, C. Li, L. Chen, T. Hoshikawa, T. Shibuguchi, P. S. Baran
"Electrochemical C(sp³)-H Fluorination"
[*Synlett* **2019**, *30*, 1178–1182](#)
5. C. Li, Y. Kawamata, **H. Nakamura**, J. C. Vantourout, Z. Liu, Q. Hou, D. Bao, J. T. Starr, J. Chen, M. Yan, P. S. Baran
"Electrochemically Enabled, Nickel-Catalyzed Amination"
[*Angew. Chem. Int. Ed.* **2017**, *56*, 13088–13093](#)
4. **H. Nakamura**
"Synthetic studies toward total synthesis of caprazamycins and calyciphylline A type alkaloids"
[*Dissertation \(Ph.D. thesis\)* **2017**, *Kyoto University*](#)
3. **H. Nakamura**, T. Yoshida, C. Tsukano, Y. Takemoto
"Synthesis of CPZEN-45: Construction of the 1,4-Diazepin-2-one Core by the Cu-catalyzed Intramolecular Amidation of a Vinyl Iodide"
[*Org. Lett.* **2016**, *18*, 2300–2303](#)
2. **H. Nakamura**, C. Tsukano, M. Yasui, S. Yokouchi, M. Igarashi, Y. Takemoto
"Total Synthesis of (-)-Caprazamycin A"
[*Angew. Chem. Int. Ed.* **2015**, *54*, 3136–3139](#)
1. Y. Yanagita, **H. Nakamura**, K. Shirokane, Y. Kurosaki, T. Sato, N. Chida,
"Direct Nucleophilic Addition to N-Alkoxyamides"
[*Chem. Eur. J.* **2013**, *19*, 678–684](#)

Major Books and Other Publications

3. Hugh Nakamura

"To win away games", Division of Organometallic Chemistry, Kinka Chemical Society, Japan,
[Organometallic News, No. 1, 17-18, issued on March 18, 2022](#)

2. Hugh Nakamura

"How to survive in the big lab in US", Division of Medicinal Chemistry at The Pharmaceutical Society of Japan,
[MEDCHEM NEWS, Vol.31, No. 1, 8-12, 2021](#)

1. Hugh Nakamura, Chihiro Tsukano, Yoshiji Takemoto

"Latest Trends in Total Synthesis of Natural Products" (Area of responsibility: Total Synthesis of Caprazamycin A, a Liponucleoside having Fatty Acids Side Chain)
[CMC Publishing CO. LTD. Mar 15, 2020](#)

Invited Lectures

29. International Conference on Catalysis and Fine Chemicals (C&FC2026), Singapore (Dec. 6-9, 2026)
28. 2nd Shanghai-Hong Kong Young Scholars' Frontiers in Chemistry Symposium, The University of Hong Kong, Hong Kong (June 13-14, 2026)
27. 59th SCS-Bürgenstock Conference, Brunnen, Switzerland (May 3-7, 2026)
26. ACP Lectureship Award, Gachon University, Korea (Jan. 16, 2026)
25. ACP Lectureship Award, KAIST, Korea (Jan. 15, 2026)
24. ACP Lectureship Award, POSTECH, Pohang City, Korea (Jan. 14, 2026)
23. ACP Lectureship Award, Seoul National University, Korea (Jan. 13, 2026)
22. Pacificchem Symposium, Plenary Talk (Early-Career Rising Star), Honolulu, Hawaii, USA (Dec. 18, 2025)
21. Pacificchem Symposium, Group Section Talk, Honolulu, Hawaii, USA (Dec. 15, 2025)
20. 18th International Conference on Cutting-Edge Organic Chemistry in Asia (ICCEOCA-18), Hainan, China (Nov. 27-Nov. 30, 2025)
19. Organic Chemistry Symposium, Kyoto University (Uji campus), Japan (Oct 22, 2025)
18. 2nd Frontier Symposium on Synthesis (FSS2025), HKUST, Hong Kong (June 12, 2025)
17. 23rd Organic Chemistry the Next Generation Symposium, Kyoto University, Japan (May 30, 2025)
16. ACP Lectureship Award, Kyoto University, Kyoto, Japan (May 29, 2025)
15. ACP Lectureship Award, Osaka University, Osaka, Japan (May 28, 2025)
14. ACP Lectureship Award, Kyushu University, Fukuoka, Japan (May 27, 2025)
13. ACP Lectureship Award, The University of Tokyo, Tokyo, Japan (May 26, 2025)
12. 58th SCS-Bürgenstock Conference, Brunnen, Switzerland (May 4-8, 2025) ([invited poster presentation](#))
11. ACP Lectureship Award, National Tsing Hua University, Taiwan (Feb. 26, 2025)
10. ACP Lectureship Award, National Chengchi University, Taiwan (Feb. 25, 2025)
9. ACP Lectureship Award, National Yang Ming Chiao Tung University, Taiwan (Feb. 21, 2025)
8. 12th Singapore International Chemistry Conference (SICC-12), Singapore (Dec.9-13, 2024)

7. 17th International Conference on Cutting-Edge Organic Chemistry in Asia (ICCEOCA-17), Taiwan (Nov. 29-Dec. 2, 2024) (invited poster presentation)
6. 1st Maruoka Conference, Nagoya University, Japan (Oct.14-15, 2024)
5. 16th International Conference on Cutting-Edge Organic Chemistry in Asia (ICCEOCA-16), Singapore (Dec. 1-4, 2023) (invited poster presentation)
4. 54th Summer Seminar for Young Peptide Scientist, Japan (Zoom webinar) (Aug. 2022)
3. The 4th Organic Chemistry Student Webinar, Japan (Zoom webinar) (Jan. 23, 2022)
2. HKU Forum for Outstanding Young Scholars, The University of Hong Kong, Hong Kong (Oct. 2019)
1. Research presentation, Göttingen University, Germany (July 2019)

Teaching

List all courses taught at HKUST and class size

2021/22 academic year to present

Organic Chemistry I (CHEM2110) (190-200 Enrolment) (UG students)

Organic Chemistry II (CHEM3120) (70-80 Enrolment) (UG students)

Medicinal Chemistry (CHEM4130) (30-40 Enrolment) (UG students)

Advanced Medicinal Chemistry (CHEM5160) (15-20 Enrolment) (graduate students)

Capstone Research (CHEM4680) (UG students, Lab work)

Capstone Project (CHEM4689) (UG students)

Professional Activities

[University Service]

HKUST Seminar Committee, 2021-present

HKUST Seminar Committee (Chairman), 2022-2024

HKUST Postgraduate Committee member, 2022-present

HKUST Library Coordinator, 2024-present