

# 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](https://researchmap.jp/total_synthesis?lang=en)

### Professional Experiences

Sep. 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, California, 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

1. 2024, Early Career Award (Research Grants Council), Hong Kong, 2024
2. 2023, Asian Core Program Lectureship Award (by Taiwan), ICCEOCA-16 in Singapore
3. 2023, Asian Core Program Lectureship Award (by China), ICCEOCA-16 in Singapore
4. 2022, The Interstellar Initiative Early Career Investigators (NYAS & AMED)

### Awards (Pre- and Post-Doctoral)

5. 2019, Meeting of Minds @HKU Forum for Outstanding Young Scholars
6. 2017–2019, JSPS Postdoctoral Fellowship for Research Abroad
7. 2015, The 6th Otsu Academy Award Fellowship
8. 2015, 13th Organic Chemistry the Next Generation: Best Oral Presentation Award
9. 2014–2017, JSPS Research Fellowship DC1
10. 2014, 134th Pharmaceutical Society of Japan conference: Best Presentation Award
11. 2014, 31st Organic Synthesis Symposium: Best Poster Presentation Award
12. 2012–2014, Japan Student Services Organization Fellowship

## 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

## Consulting Activities

Shanghai Aolaiyakang Medical Technology Co., Ltd., 2022–present

## Publication

### [Independent Work]

22. L. Yu<sup>§</sup>, H. Ogawa<sup>§</sup>, S. Li<sup>§</sup>, T. L. Cheung<sup>§</sup>, W. Liu, D. Yan, Y. Matsuda, Y. Kobayashi, Z. Guo, K. Yamazaki\*, P.-Y. Qian\*, **H. Nakamura\***  
"Concise Synthesis of Cyclotryptomycin A and B Enabled by Zrcatalyzed Dimerization"  
(<sup>§</sup>These authors contributed equally to this work.)  
[Angew. Chem. Int. Ed. 2024, e202414295](#)
21. J. Zhang<sup>§</sup>, L. Yu<sup>§</sup>, H. Ogawa, Y. Nagata, **H. Nakamura\***  
"Modular, Scalable Total Synthesis of Lapparbin with a Noncanonical Biaryl Linkage"  
(<sup>§</sup>These authors contributed equally.)  
[Angew. Chem. Int. Ed. 2024, e202409987](#)
20. L. Yu, Y. Nagata, **H. Nakamura\***  
"Atroposelective Total Synthesis of Cihunamide B"  
[J. Am. Chem. Soc. 2024, 146, 2549–2555](#)
19. H. Ogawa, **H. Nakamura\***  
"Atroposelective Total Synthesis of Strecintide 839"  
[Tetrahedron Chem, 2024, 11, 100084](#) (Invited contribution)
18. H. Ogawa, Y. Nagata, **H. Nakamura\***  
"Modular, Scalable Total Synthesis of Neopetromin"  
[Chin. J. Chem., 2024, 42, 3023–3028](#) (Invited contribution)
17. L. Yu, **H. Nakamura\***  
"Short, Scalable Access to Pyrrovobasine"  
[JACS Au 2023, 3, 3000–3004](#)
16. H. Ogawa<sup>§</sup>, L. Yu<sup>§</sup>, S. Li, Y. Nagata, T.-K. Chan, Y. Matsuda, J. Liu, Y.-X. Li, **H. Nakamura\***  
"Modular, Atroposelective Total Synthesis of Micitide 982"

(§These authors contributed equally.)

[ChemRxiv 2024](#)

15. L. Yu<sup>§</sup>, S. Li<sup>§</sup>, H. Ogawa<sup>§</sup>, **H. Nakamura\***

"Fe-Electrocatalytic Deoxygenative Giese Reaction" (§These authors contributed equally to this work.)

[ChemRxiv 2023](#)

**[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- $\beta$ -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. N. deGruyter, **H. Nakamura**, K. Knouse, C. Qin, K. J. Clay, D. Bao, C. Li, J. T. Starr, N. Sach, M. D. Eastgate, 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(sp<sup>3</sup>)-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

4. **Hugh Nakamura**

"Introducing ..."

[\*Angew. Chem. Int. Ed.\* \*\*2024\*\*, e202415362](#)

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 Talk**

1. ACP Lectureship Award, National Tsing Hua University, Taiwan (Dec. 2024)
2. ACP Lectureship Award, National Yang Ming Chiao Tung University, Taiwan (Dec. 2024)
3. ACP Lectureship Award, National Chengchi University, Taiwan (Dec. 2024)
4. [12th Singapore International Chemistry Conference \(SICC-12\)](#), Singapore (Dec.9-13, 2024)
5. [1st Maruoka Conference](#), Nagoya University, Japan (Oct.14-15, 2024)
6. [54th Summer Seminar for Young Peptide Scientist](#), Japan (webinar) (Aug. 2022)
7. [The 4th Organic Chemistry Student Webinar](#), Japan (webinar) (Jan. 23, 2022)
8. HKU Forum for Outstanding Young Scholars, The University of Hong Kong (Oct. 2019)
9. Research presentation, Göttingen University, Germany (July 2019)

### **Teaching**

List all courses taught at HKUST and class size

Spring 2021/22 to present

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

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

Capstone Research (CHEM4680) (UG students)

Capstone Project (CHEM4689) (UG students)