

## Yuki Goto, Professor in Chemical Biology

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Yuki Goto received his M.S. from Kyoto University in 2005, where he studied nucleic acid chemistry under the supervision of Professors K. Nakatani and I. Saito. He then joined the group of Professor H. Suga at the University of Tokyo, earning his Ph.D. in 2008 with research focused on reprogramming of translation systems. From 2008 to 2009, he conducted postdoctoral research at the University of Illinois at Urbana-Champaign with Professor W. A. van der Donk, working on the biosynthesis of lanthipeptides. In 2009, he was appointed as an assistant professor at the University of Tokyo and promoted to associate professor in 2016. During this period, he was engaged in the mRNA display-based development of cyclic peptide ligands and, in parallel, initiated his independent research on the artificial biosynthesis of pseudo-natural peptides. In 2024, he moved to Kyoto University as a full professor. His current research interests include the development of artificial in vitro biosynthesis systems and their application to the discovery of pseudo-natural products with novel bioactivities.

### Selected recent papers

- 1) Inoue S.; Thanh Nguyen D.; Hamada K.; Okuma R.; Okada C.; Okada M.; Abe I.; Sengoku T.; Goto Y.; Suga H. *Angew. Chem. Int. Ed.*, **2024**, 63, e202409973.
- 2) Chang, J.S.; Vinogradov, A. A.; Zhang, Y.; Goto, Y.; Suga, H. *ACS Cent. Sci.*, **2023**, 9, 2150–2160.
- 3) Zhang, Y.; Hamada, K.; Nguyen, D. T.; Inoue, S.; Satake, M.; Kobayashi, S.; Okada, C.; Ogata, K.; Okada, M.; Sengoku, T.; Goto, Y.; Suga, H. *Nat. Catal.*, **2022**, 5, 682–693.
- 4) Kuroda, T.; Huang, Y.; Nishio, S.; Goto, Y.; Suga, H. *Nat. Chem.*, **2022**, 14, 1413–1420.
- 5) Vinogradov, A. A.; Zhang, Y.; Hamada, K.; Chang, J. S.; Okada, C.; Nishimura, H.; Terasaka, N.; Goto, Y.; Ogata, K.; Sengoku, T., *et al. J. Am. Chem. Soc.*, **2022**, 144, 20332–20341.
- 6) Tsutsumi, H.; Kuroda, T.; Kimura, H.; Goto, Y.; Suga, H. *Nat. Commun.*, **2021**, 12, 696.
- 7) Goto, Y.; Suga, H. *Acc. Chem. Res.*, **2021**, 54, 3604–3617.

### Positions since final degree

2008-2009	Postdoctoral research associate, University of Illinois at Urbana-Champaign Advisor: Prof. Wilfred A. van der Donk Project: Discovery and mechanistic studies of a novel class of lantibiotic synthetase
2009-2010	Assistant Professor, Research Center for Advanced Science and Technology, The University of Tokyo
2010-2016	Assistant Professor, Department of Chemistry, The University of Tokyo
2011-2015	Investigator, PRESTO research program, Japan Science and Technology Agency
2016-2023	Associate Professor, Department of Chemistry, The University of Tokyo
2024-	Professor, Department of Chemistry, Kyoto University
2024-	Toyota Riken Rising Fellow, Toyota Physical and Chemical Research Institute