

Mina Yamane

Date of Birth: January 12th, 1998

Graduate School of Pharmaceutical Sciences

The University of Tokyo

Address: 7-3-1, Hongo, Bunkyo-ku, Tokyo 113-0033, JAPAN

Tel: (+81)-3-5841-4835 (ext: 24835)

Email: yamamina “at” g.ecc.u-tokyo.ac.jp

CURRENT POSITION

4/2025-present **Project Assistant Professor (KANAI LAB)**
Graduate School of Pharmaceutical Sciences
The University of Tokyo, Tokyo, JAPAN

EDUCATION & TRAINING

1/2025-3/2025 **Visiting Student** at Prof. Alison Wendlandt Lab
Department of Chemistry
Massachusetts Institute of Technology (MIT), MA, USA

4/2022-3/2025 **Ph.D.** in Pharmaceutical Sciences
– *Minor degree in Information Science*
Advisor: Prof. Motomu Kanai
Graduate School of Pharmaceutical Sciences
The University of Tokyo, Tokyo, JAPAN

4/2020-3/2022 **M.S.** in Pharmaceutical Sciences
Advisor: Prof. Motomu Kanai
Graduate School of Pharmaceutical Sciences
The University of Tokyo, Tokyo, JAPAN

4/2016-3/2020 **B.S.** in Applied Chemistry
Advisors: Prof. Noritaka Chida and Associate Prof. Takaaki Sato
Faculty of Science and Technology
Keio University, Yokohama, JAPAN

10/2018-3/2019 **Volunteer** at Prof. Robert E. Campbell Lab
Graduate School of Science
The University of Tokyo, Tokyo, JAPAN

PUBLICATIONS

6. **Yamane, M.**; Umeda, H.; Toyobe, M.; Iwai, A.; Kudo, G.; Mitsunuma, H.; Hori, Y.; Tomita, T.; Mizuguchi, M.; Okada, M.; Ueda, M.; Ando, Y.; Kawashima, S. A.; Sohma, Y.; Hirokawa, T.; Yamanaka, K.; Kanai, M. “Small molecule amyloid disrupters demonstrate therapeutic efficacy for transthyretin amyloidosis” *submitted* (Preprint ver. in *ChemRxiv* doi: 10.26434/chemrxiv-2024-pghmz)
5. Shennan, B. D. A.; Fukuta, T.; **Yamane, M.**; Koyama, T.; Mitsunuma, H.; Kanai, M. “Catalytic Phosphorylation of Tyrosine via a Radical Arbuzov Reaction” *J. Am. Chem. Soc.* **2025**, *147*, 6349–6354.
4. Atsumi, W.; Kawabata, K.; **Yamane, M.**; Oi, M.; Mitsunuma, H.; Sohma, Y.; Hori, Y.; Tomita, T.; Kanai, M. “Rose Bengal Promoted Catalytic Amyloid- β Oxygenation via Sonoactivation” *Synlett* **2024**, *35*, 8, 920–924. (Special issue dedicated to Keith Fagnou)
3. **Yamane, M.**[#]; Kanzaki, Y. [#]; Mitsunuma, H.; Kanai, M. “Titanium(IV) Chloride-Catalyzed Photoalkylation via C(sp³)-H Bond Activation of Alkanes” *Org. Lett.* **2022**, *24*, 7, 1486–1490.
[#] Equal contribution (This article was selected as: *Most Read Articles, TOP 20 on a monthly basis.*)
2. Fujita, T.; **Yamane, M.**; Sameera, W. M. C.; Mitsunuma, H.; Kanai, M. “Siloxy Esters as Traceless Activators of Carboxylic Acids: Boron-Catalyzed Chemoselective Asymmetric Aldol Reaction” *Angew. Chem. Int. Ed.* **2021**, *60*, 46, 24598–24604.
(This article was selected as: *Hot Paper.*)
1. Katahara, S.; Sugiyama, Y.; **Yamane, M.**; Komiya, Y.; Sato, T.; Chida, N. “Five-Step Total Synthesis of (±)-Aspidospermidine by a Lactam Strategy via an Azomethine Ylide” *Org. Lett.* **2021**, *23*, 8, 3058–3063.
(This article was selected as: *Most Read Articles, TOP 20 on a monthly basis.*)

REVIEWS

- Matsukawa, R.; **Yamane, M.**; Kanai, M. *Chem. Rec.* **2023**, *23*, 11, e202300198.

PATENTS

- Patent application 2024-53018, *under review* (related to publication 6)
「トランスサイレチンアミロイドに対する光酸素化触媒、及びこれを含む医薬組成物」

AWARDS & HONORS

- *1st Place BRC Research Poster Award*, The 5th Bowei Research Conference (2025)
- Ban 平井(大越)貞子基金研究奨励賞, Graduate School of Pharmaceutical Sciences, The University of Tokyo (2024)
- *Best Student Presentation*, 144th Annual Meeting of the Pharmaceutical Society of Japan (2024)
- *Best Oral Presentation*, Summer Retreat Seminar, IMEG and International Research Core for Stem Cell-based Developmental Medicine, Kumamoto University (2023)
- The 13th Otsu Conference Fellow, MSD Life Science Foundation (2022)

FELLOWSHIPS

- 4/2023** Research Fellow, Japan Society for the Promotion of Science (JSPS), DC2
– *Selected for additional scholarship for outstanding research performance*
- 10/2021** International Graduate Program of Innovation for Intelligent World (IIW)
- 4/2020** Japan Student Services Organization (JASSO) Scholarship, Category I
– *2022 Repayment Exemption for Outstanding Achievement*

CONFERENCES

First-author Presentations: 12 (*including 3 international*)

Co-author Contributions: 10

REFERENCES

Motomu Kanai, Ph.D., Professor

Graduate School of Pharmaceutical Sciences, The University of Tokyo

7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, JAPAN

Tel: (+81)-3-5841-4830

Email: kanai@mol.f.u-tokyo.ac.jp